



SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Report No.: SHCR230800171101

Page: 1 of 130

TEST REPORT

Application No.: SHCR2308001711AT
FCC ID: 2AXNA-RACLV36
Applicant: AGM Global Vision LLC
Address of Applicant: 173 West Main Street, #962, Springerville, AZ 85938 USA
Manufacturer: AGM Global Vision LLC
Address of Manufacturer: 173 West Main Street, #962, Springerville, AZ 85938 USA
Equipment Under Test (EUT):
EUT Name: Thermal Imaging Clip-On & Thermal Imaging Rifle Scope
Model No.: AGM Rattler-C V2 35-384, AGM Rattler-C V2 50-640, AGM RattlerV2 25-384, AGM RattlerV2 35-384, AGM RattlerV2 35-640, AGM RattlerV2 50-640, AGM Rattler-C V2 35-640, AGM Rattler-C V2 50-640, AGM Clarion 384, AGM Clarion 640

♣

Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.

Trade Mark:



Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2023-07-27
Date of Test: 2023-08-02 to 2023-08-21
Date of Issue: 2023-08-28

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Parlam Zhan

Parlam Zhan
Laboratory Manager



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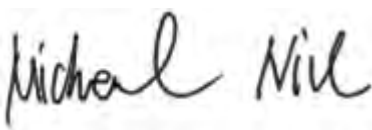
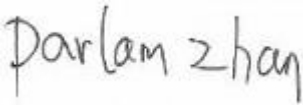
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Revision Record			
Version	Description	Date	Remark
00	Original	2023-08-28	/

Authorized for issue by:			
			
		Micheal Niu /Project Engineer	
			
		Parlam Zhan/Reviewer	



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2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
Conducted Peak Output Power		ANSI C63.10 (2013) Section 11.9.2	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
Minimum 6dB Bandwidth		ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass
Power Spectrum Density		ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass
Conducted Band Edges Measurement		ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Spurious Emissions		ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass

Model No.: AGM Rattler-C V2 35-384,AGM Rattler-C V2 50-640,AGM RattlerV2 25-384,AGM RattlerV2 35-384,AGM RattlerV2 35-640,AGM RattlerV2 50-640,AGM Rattler-C V2 35-640,AGM Rattler-C V2 50-640,AGM Clarion 384,AGM Clarion 640

Only the model AGM Rattler-C V2 35-384 was tested.

Note1: There are series models mentioned in this report, and they are the identical in electrical and electronic characters. We mainly tested model AGM Rattler-C V2 35-384 was tested since their differences lie in the differences in eyepiece size, objective lens focal length and detector resolution.

Note2: This product has two types of batteries, but the battery models are different. All other electrical performance specifications are the same. We only evaluated all test items with Battery A.



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 3.6V by Battery Battery A Model: HM-3644DC Rating: 3.6V/4.4Ah Charging Limited Voltage: 4.2V Battery B Model: NE-4400 Rating: 3.6V/4.4Ah Charging Limited Voltage: 4.2V
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz;802.11n(HT40): 2422MHz to 2452MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK);802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Number of Channels:	802.11b/g/n(HT20):11;802.11n(HT40):7
Channel Spacing:	5MHz
Antenna Type:	PCB Antenna
Antenna Gain:	-6.71dBi (Provided by the manufacturer)

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
AC Adapter	HONOTO	ADS-10LA-06 05010EPC	/
Notebook	LENOVO	K27	EB24537645

4.3 Power level setting using in test

Channel	802.11b	802.11g	802.11n(HT20)
	Ant 1	Ant 1	Ant 1
1	31	40	40
6	29	39	39
11	29	38	38
Channel	802.11n(HT40)		
	Ant 1		
3	41		
6	40		
9	40		



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4.4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4×10^{-8}
2	Timeout	2s
3	Duty Cycle	0.37%
4	Occupied Bandwidth	3%
5	RF Conducted Power	0.6dB
6	RF Power Density	2.9dB
7	Conducted Spurious Emissions	0.75dB
8	RF Radiated Power	5.2dB (Below 1GHz)
		5.9dB (Above 1GHz)
9	Radiated Spurious Emission Test	4.2dB (Below 30MHz)
		4.5dB (30MHz-1GHz)
		5.1dB (1GHz-18GHz)
		5.4dB (Above 18GHz)
10	Temperature Test	1°C
11	Humidity Test	3%
12	Supply Voltages	1.5%
13	Time	3%

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



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4.5 Test Location

All tests were performed at:

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Tel: +86 21 6191 5666 Fax: +86 21 6191 5678

No tests were sub-contracted.

Note:

1. SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working frequency, antenna gain, cable loss, etc) is provided by the applicant. (If applicable).
2. SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (If applicable).

4.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• **A2LA (Certificate No. 6332.01)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA).

• **FCC (Designation Number: CN1301)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

• **ISED (CAB Identifier: CN0020)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. EMC Laboratory has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.
Company Number: 8617A

• **VCCI (Member No.: 3061)**

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-13868, C-14336, T-12221, G-10830 respectively.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None



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5 Equipment List

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RF Conducted Test					
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2022-12-20	2023-12-19
Spectrum Analyzer	Keysight	N9020B	SHEM241-1	2022-12-20	2023-12-19
Spectrum Analyzer	Agilent	N9020A	SHEM181-1	2023-08-01	2024-07-31
Signal Generator	R&S	SMR20	SHEM006-1	2023-08-01	2024-07-31
Signal Generator	Agilent	N5182A	SHEM182-1	2023-08-01	2024-07-31
Communication Tester	R&S	CMW270	SHEM183-1	2023-06-01	2024-05-31
Communication Tester	R&S	CMW500	SHEM268-1	2023-06-01	2024-05-31
Power Sensor	Keysight	U2021XA * 4	SHEM184-1	2023-08-01	2024-07-31
Splitter	Anritsu	MA1612A	SHEM185-1	/	/
Coupler	e-meca	803-S-1	SHEM186-1	/	/
High-low Temp Cabinet	Suzhou Zhihe	TL-40	SHEM087-1	2022-11-08	2024-11-07
AC Power Stabilizer	APC	KDF-31020T-V0-F0	SHEM216-1	2022-12-20	2023-12-19
DC Power Supply	MCH	MCH-303A	SHEM210-1	2022-12-20	2023-12-19
Conducted test Cable	/	RF01~RF04	/	2022-12-20	2023-12-19
Switcher	Tonscend	JS0806	SHEM184-1	2023-08-01	2024-07-31
Test software	Tonscend	JS Tonscend BT/WIFI System	Version: 2.6	/	/
Coaxial Cable	TST		SHEM263-1	2023-08-01	2024-07-31
Test software	TST	TST PASS	Version: 2.0	/	/
RF Radiated Test					
EMI test Receiver	R&S	ESU40	SHEM051-1	2022-12-20	2023-12-19
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2022-12-20	2023-12-19
Communication Tester	R&S	CMW500	SHEM268-1	2023-06-01	2024-05-31
Loop Antenna (9kHz-30MHz)	Schwarzbeck	FMZB1519	SHEM135-1	2022-12-20	2023-12-19
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM048-1	2021-09-11	2023-09-10
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM202-1	2022-05-07	2024-05-06
Horn Antenna (1-18GHz)	Schwarzbeck	HF906	SHEM009-1	2022-08-11	2024-08-10
Horn Antenna (1-18GHz)	Schwarzbeck	BBHA9120D	SHEM050-1	2021-09-18	2023-09-17
Horn Antenna (14-40GHz)	Schwarzbeck	BBHA 9170	SHEM049-1	2021-09-18	2023-09-17
Pre-Amplifier	HP	8447D	SHEM236-1	2023-08-01	2024-07-31
High-amplifier (14-40GHz)	Schwarzbeck	10001	SHEM049-2	2022-12-20	2023-12-19
Band Filter	LORCH	9BRX-875/X150	SHEM156-1	/	/
Band Filter	LORCH	13BRX-1950/X500	SHEM083-2	/	/
Band Filter	LORCH	5BRX-2400/X200	SHEM155-1	/	/
Band Filter	LORCH	5BRX-5500/X1000	SHEM157-2	/	/
High pass Filter	Wainwright	WHK3.0/18G	SHEM157-1	/	/
High pass Filter	Wainwright	WHKS1700	SHEM157-3	/	/
Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2021-05-25	2024-05-24
RE test Cable	/	RE01, RE02, RE06	/	2023-01-07	2024-01-06
Test Software	ESE	e3	Version: 6.111221a	N/A	N/A



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Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Conducted Emissions at AC Mains Power Port (150kHz-30MHz)					
EMI test receiver	Rohde & Schwarz	ESR7	SHEM162-1	2022/12/20	2023/12/19
Line impedance stabilization network	SCHWARZBECK	NSLK8127	SHEM061-1	2022/12/20	2023/12/19
Line impedance stabilization network	EMCO	3816_2	SHEM019-1	2022/12/20	2023/12/19
Pulse limiter	Rohde & Schwarz	ESH3-Z2	SHEM029-1	2022/12/20	2023/12/19
Shielding Room	ZHONGYU	8*4*3M	SHEM079-2	2020/12/20	2023/12/19
CE test Cable	/	/	SHEM172-1	2022/12/20	2023/12/19
Test Software	ESE	e3	Version: 6.111221a	N/A	N/A



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is PCB Antenna and no consideration of replacement. The best case gain of the antenna is -6.71 dBi.

Antenna location: Refer to internal photo.



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7 Radio Spectrum Matter Test Results

7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207

Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Frequency of emission(MHz)	Conducted limit(dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50
*Decreases with the logarithm of the frequency.		
Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz		

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 25.6 °C Humidity: 50.5 % RH Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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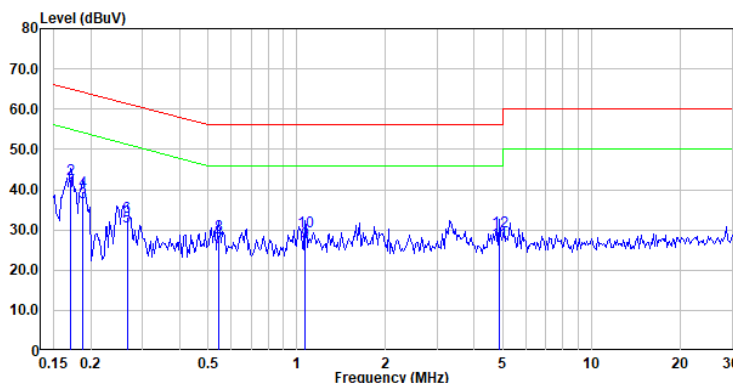
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Test Mode: 00; Line: Live line



No.	Freq (MHz)	Read level (dBuV)	LISN Factor (dB)	Emission Level (dBuV)	Limit (dBuV)	Over Limit (dB)	Remark
1	0.17	20.07	19.56	39.63	54.94	-15.31	Average
2	0.17	23.15	19.56	42.71	64.94	-22.23	QP
3	0.19	17.26	19.56	36.82	54.15	-17.33	Average
4	0.19	20.11	19.56	39.67	64.15	-24.48	QP
5	0.27	11.10	19.57	30.67	51.25	-20.58	Average
6	0.27	13.69	19.57	33.26	61.25	-27.99	QP
7	0.55	6.05	19.57	25.62	46.00	-20.38	Average
8	0.55	9.16	19.57	28.73	56.00	-27.27	QP
9	1.07	7.14	19.58	26.72	46.00	-19.28	Average
10	1.07	10.05	19.58	29.63	56.00	-26.37	QP
11	4.85	7.06	19.67	26.73	46.00	-19.27	Average
12	4.85	10.00	19.67	29.67	56.00	-26.33	QP



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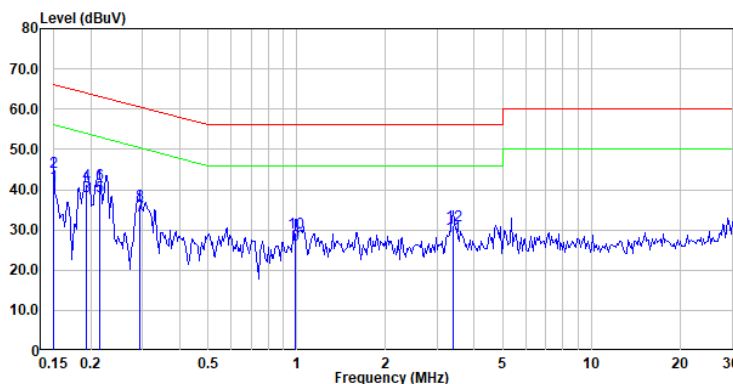
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Test Mode: 00; Line: Neutral Line



No.	Freq (MHz)	Read level (dBuV)	LISN Factor (dB)	Emission Level (dBuV)	Limit (dBuV)	Over Limit (dB)	Remark
1	0.15	21.60	19.56	41.16	56.00	-14.84	Average
2	0.15	24.81	19.56	44.37	66.00	-21.63	QP
3	0.19	18.79	19.56	38.35	53.89	-15.54	Average
4	0.19	21.68	19.56	41.24	63.89	-22.65	QP
5	0.22	18.64	19.56	38.20	53.01	-14.81	Average
6	0.22	21.73	19.56	41.29	63.01	-21.72	QP
7	0.29	13.92	19.57	33.49	50.46	-16.97	Average
8	0.29	16.80	19.57	36.37	60.46	-24.09	QP
9	0.99	6.75	19.58	26.33	46.00	-19.67	Average
10	0.99	9.72	19.58	29.30	56.00	-26.70	QP
11	3.38	8.74	19.62	28.36	46.00	-17.64	Average
12	3.38	11.58	19.62	31.20	56.00	-24.80	QP



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7.2 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)

Test Method: ANSI C63.10 (2013) Section 11.9.2

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for ≥ 50 hopping channels
	0.25 for $25 \leq$ hopping channels < 50
	1 for digital modulation
2400-2483.5	1 for ≥ 75 non-overlapping hopping channels
	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25.6 °C

Humidity: 50.5 % RH

Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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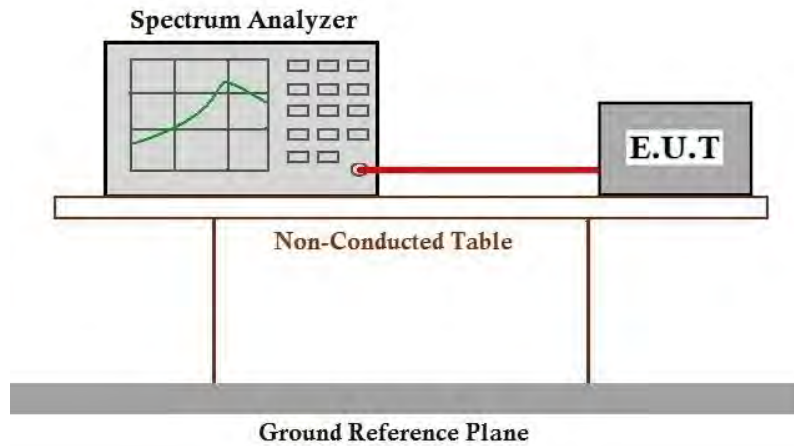
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7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

Please Refer to Appendix for Details



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7.3 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)

Test Method: ANSI C63.10 (2013) Section 11.8.1

Limit:

≥500 kHz

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 25.6 °C

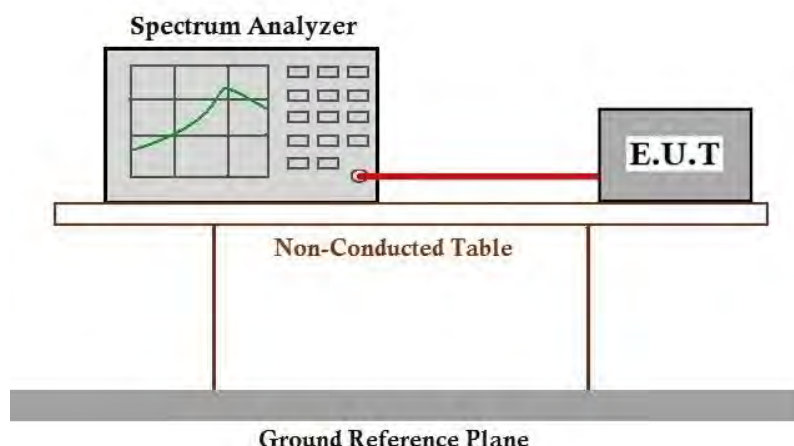
Humidity: 50.5 % RH

Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.4 Power Spectrum Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e)

Test Method: ANSI C63.10 (2013) Section 11.10.2

Limit:

≤8dBm in any 3 kHz band during any time interval of continuous transmission

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 25.6 °C

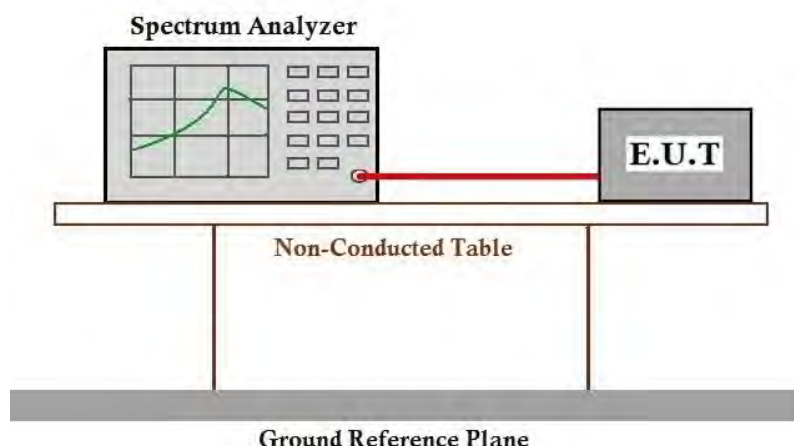
Humidity: 50.5 % RH

Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.5 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
Test Method: ANSI C63.10 (2013) Section 11.13.3.2

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 25.6 °C Humidity: 50.5 % RH Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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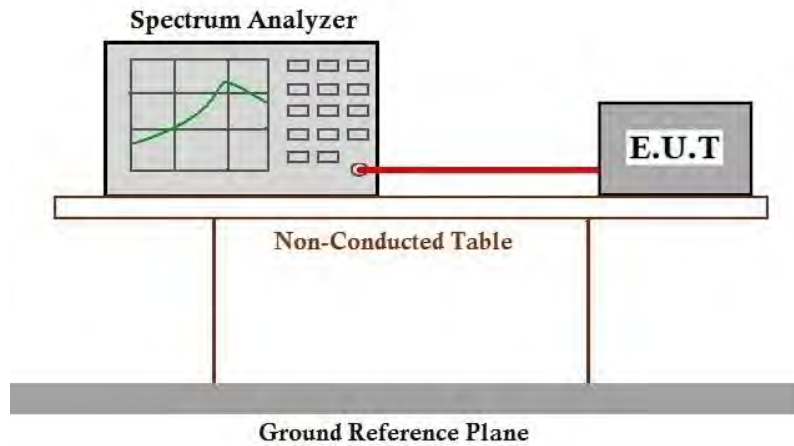
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7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

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7.6 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)

Test Method: ANSI C63.10 (2013) Section 11.11

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 25.6 °C Humidity: 50.5 % RH Atmospheric Pressure: 1010 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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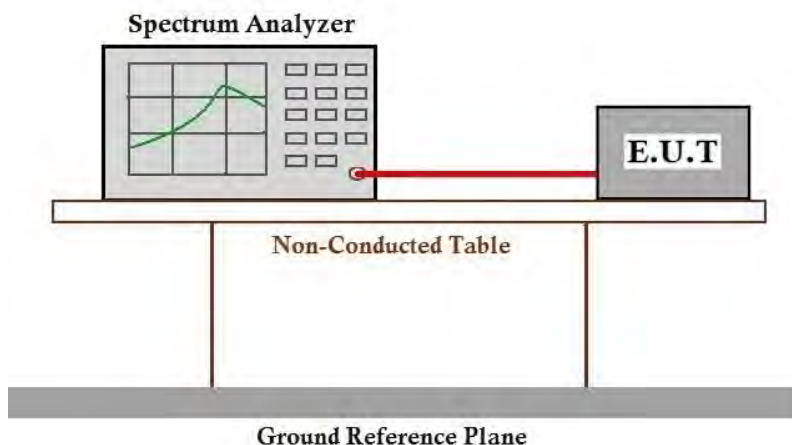
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7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.7 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.10.5

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 20.1 °C

Humidity: 42.3 % RH

Atmospheric Pressure: 1010 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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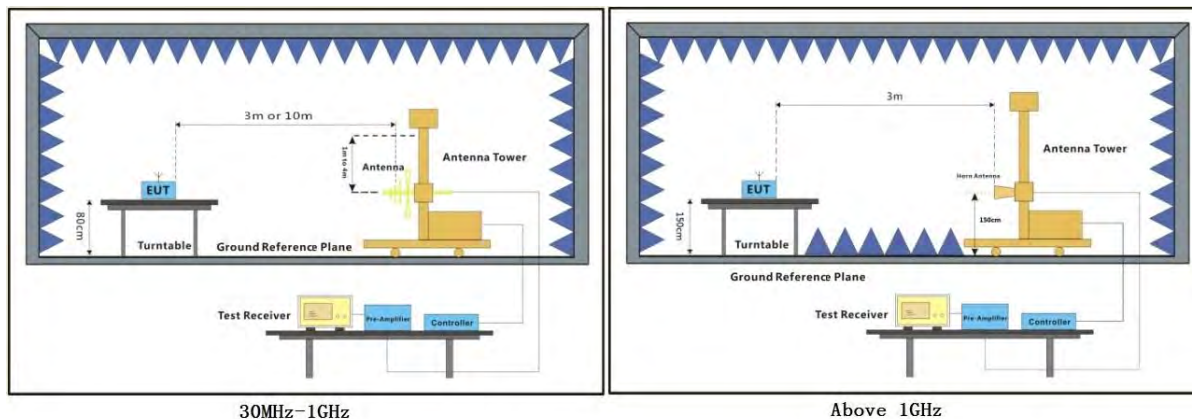
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7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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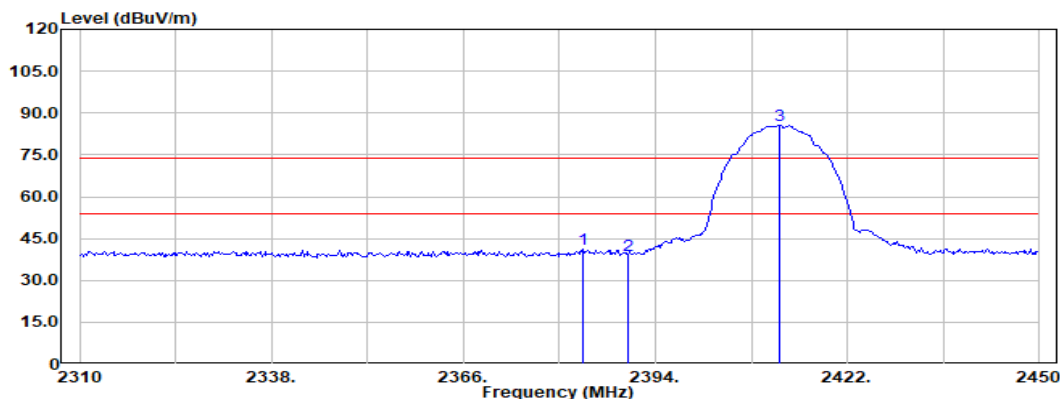
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Antenna Polarity :Horizontal

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
	2383.45	61.31	27.55	2.65	50.14	41.37	74.00	-32.63	Peak
	2390.00	59.05	27.55	2.66	50.13	39.13	74.00	-34.87	Peak
	2412.06	105.47	27.56	2.67	50.05	85.65	74.00	11.65	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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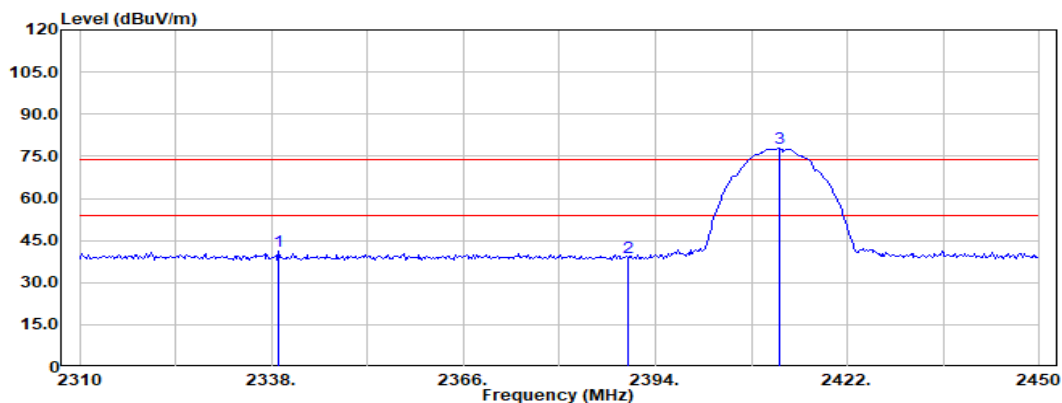
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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Antenna Polarity :Vertical

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
	2339.01	61.08	27.52	2.64	50.19	41.05	74.00	-32.95	Peak
	2390.00	58.77	27.55	2.66	50.13	38.85	74.00	-35.15	Peak
	2412.06	97.67	27.56	2.67	50.05	77.85	74.00	3.85	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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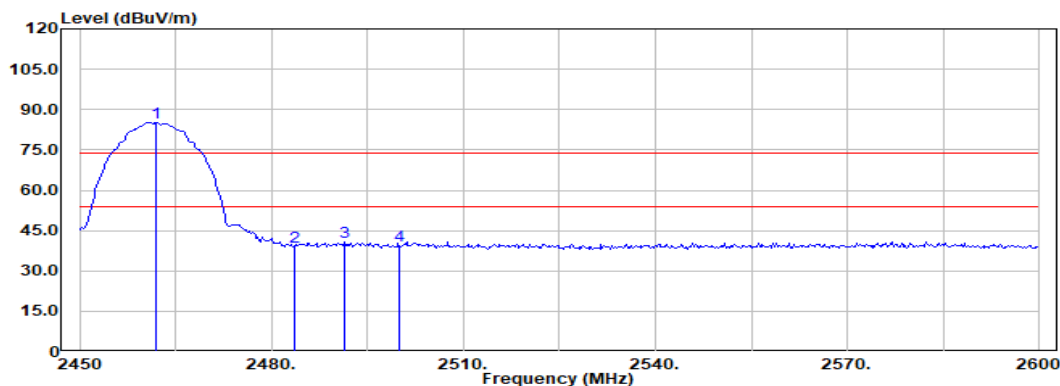
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Test Mode: 00; Polarity: Horizontal; Modulation: 802.11b; Bandwidth: 20MHz; Channel: High



Antenna Polarity :Horizontal

No.	Freq MHz	Read level dBuv	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuv/m	Limit Line dBuv/m	Over Limit dB	Remark
	2461.96	104.88	27.58	2.71	49.86	85.31	74.00	11.31	Peak
	2483.50	58.44	27.58	2.73	49.90	38.85	74.00	-35.15	Peak
	2491.30	60.48	27.59	2.74	49.92	40.89	74.00	-33.11	Peak
	2500.00	59.07	27.59	2.74	49.94	39.46	74.00	-34.54	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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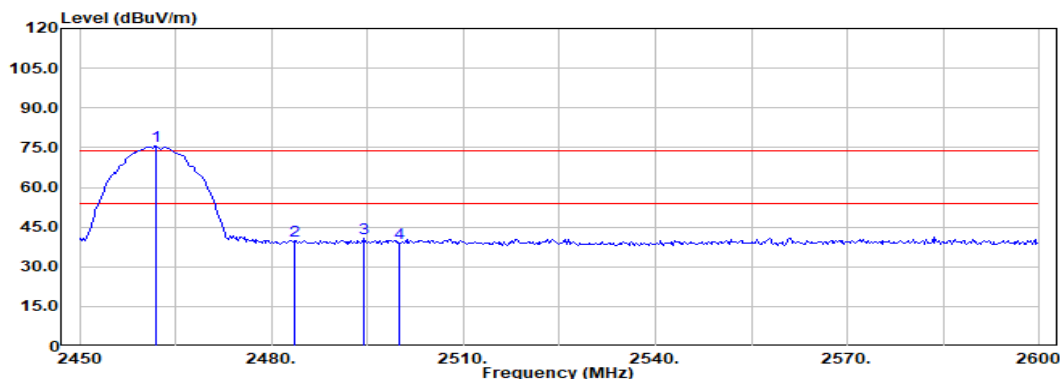
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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Antenna Polarity :Vertical

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	2461.96	95.10	27.58	2.71	49.86	75.53	74.00	1.53	Peak
	2483.50	59.43	27.58	2.73	49.90	39.84	74.00	-34.16	Peak
	2494.35	60.51	27.59	2.74	49.93	40.91	74.00	-33.09	Peak
	2500.00	58.39	27.59	2.74	49.94	38.78	74.00	-35.22	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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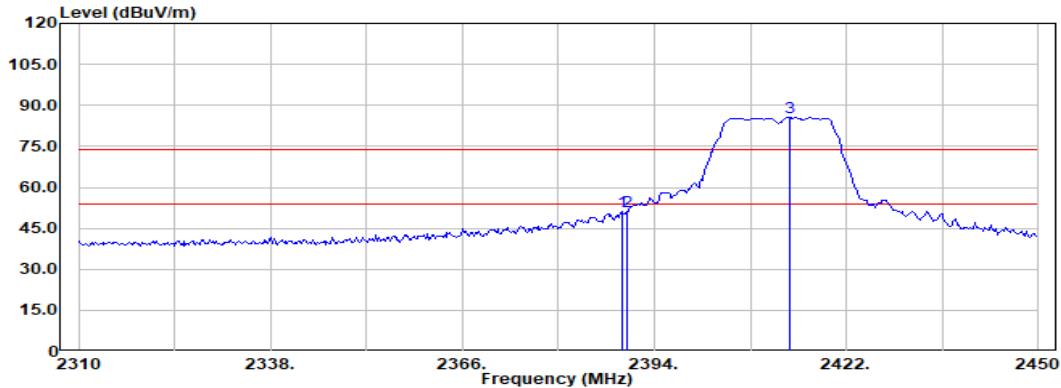
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Antenna Polarity :Horizontal

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	2389.33	71.09	27.55	2.66	50.13	51.17	74.00	-22.83	Peak
	2390.00	71.17	27.55	2.66	50.13	51.25	74.00	-22.75	Peak
	2413.68	105.45	27.56	2.67	50.04	85.64	74.00	11.64	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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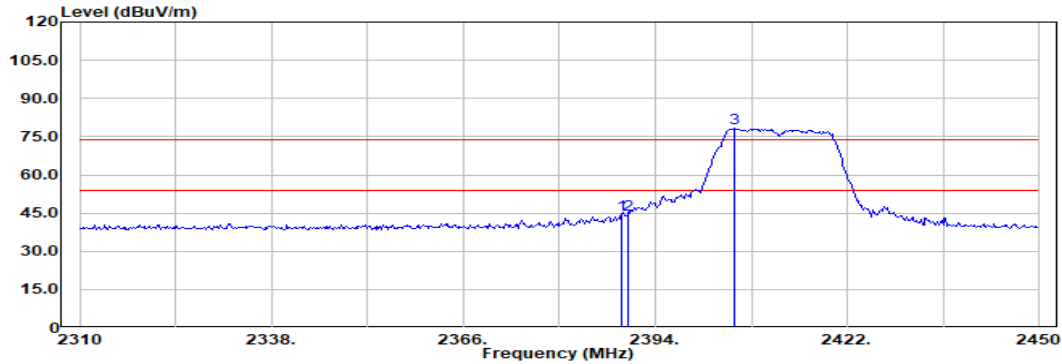
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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Antenna Polarity :Vertical

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2389.13		64.17	27.55	2.66	50.13	44.25	74.00	-29.75	Peak
2390.00		64.14	27.55	2.66	50.13	44.22	74.00	-29.78	Peak
2405.57		98.08	27.56	2.67	50.09	78.22	74.00	4.22	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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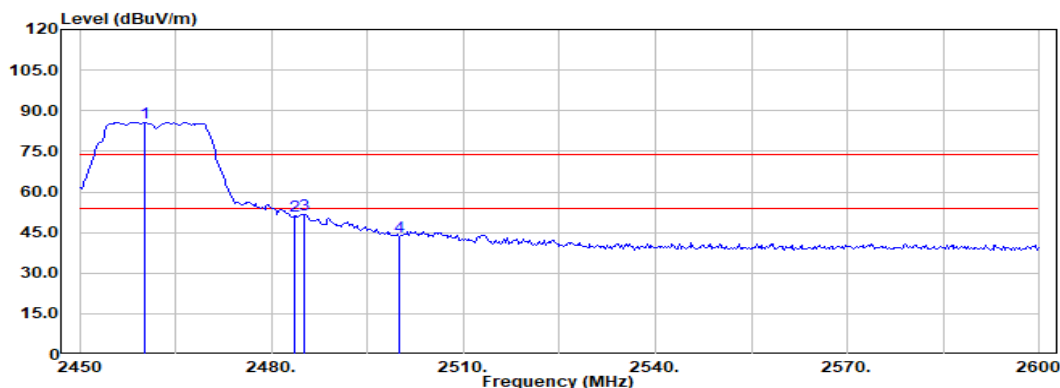
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Test Mode: 00; Polarity: Horizontal; Modulation: 802.11g; Bandwidth: 20MHz; Channel: High



Antenna Polarity :Horizontal

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
	2460.22	105.24	27.57	2.71	49.85	85.67	74.00	11.67	Peak
	2483.50	70.92	27.58	2.73	49.90	51.33	74.00	-22.67	Peak
	2485.00	71.31	27.58	2.73	49.91	51.71	74.00	-22.29	Peak
	2500.00	63.26	27.59	2.74	49.94	43.65	74.00	-30.35	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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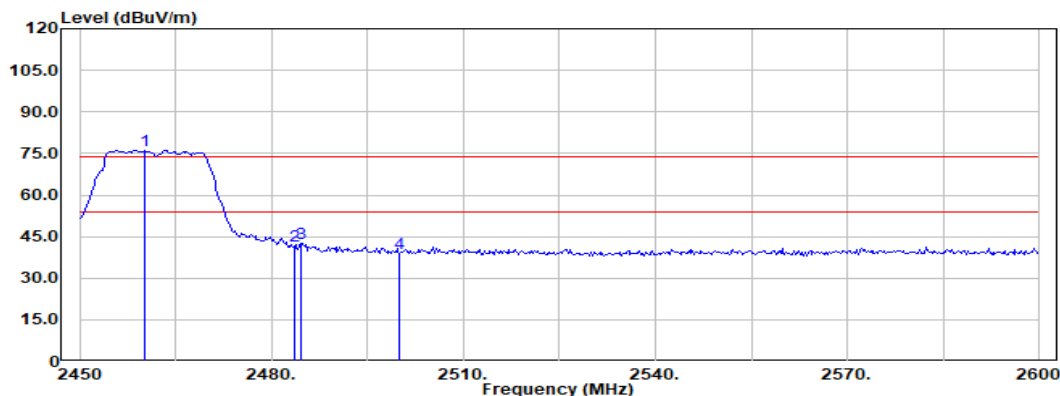
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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Antenna Polarity :Vertical

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
	2460.00	95.81	27.57	2.71	49.85	76.24	74.00	2.24	Peak
	2483.50	61.20	27.58	2.73	49.90	41.61	74.00	-32.39	Peak
	2484.57	62.27	27.58	2.73	49.91	42.67	74.00	-31.33	Peak
	2500.00	58.74	27.59	2.74	49.94	39.13	74.00	-34.87	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



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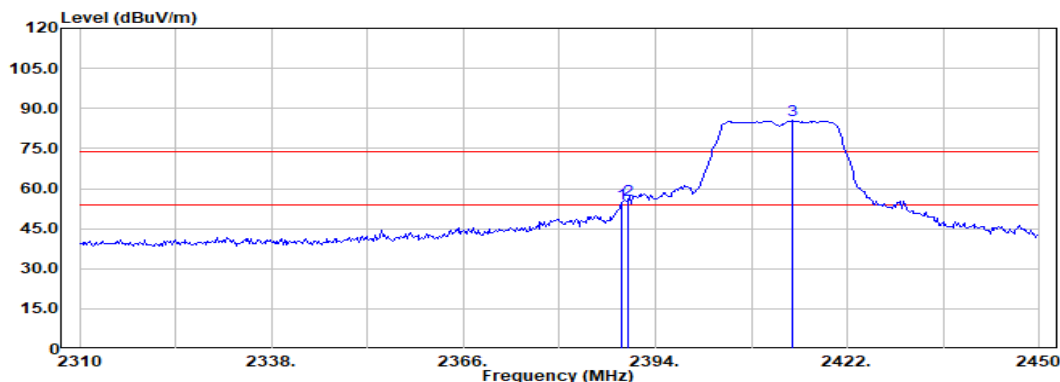
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Antenna Polarity :Horizontal

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2389.13		74.21	27.55	2.66	50.13	54.29	74.00	-19.71	Peak
2390.00		75.82	27.55	2.66	50.13	55.90	74.00	-18.10	Peak
2413.88		105.20	27.56	2.68	50.04	85.40	74.00	11.40	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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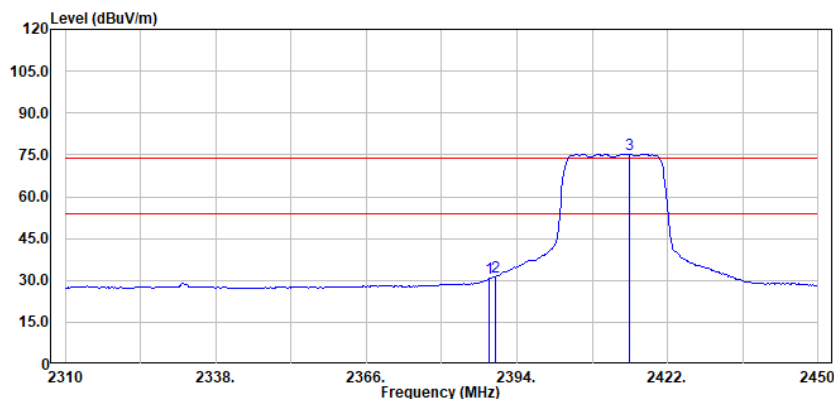
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Antenna Polarity :Horizontal

No.	Read	Antenna	Cable	Preamp	Emission	Limit	Over	
Freq	level	Factor	Loss	Factor	Level	Line	Limit	Remark
-----	-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2388.93	578.07	-500.00	2.65	50.13	30.59	54.00	-23.41	Average
2390.00	578.88	-500.00	2.66	50.13	31.41	54.00	-22.59	Average
2414.90	622.69	-500.00	2.68	50.03	75.34	54.00	21.34	Average

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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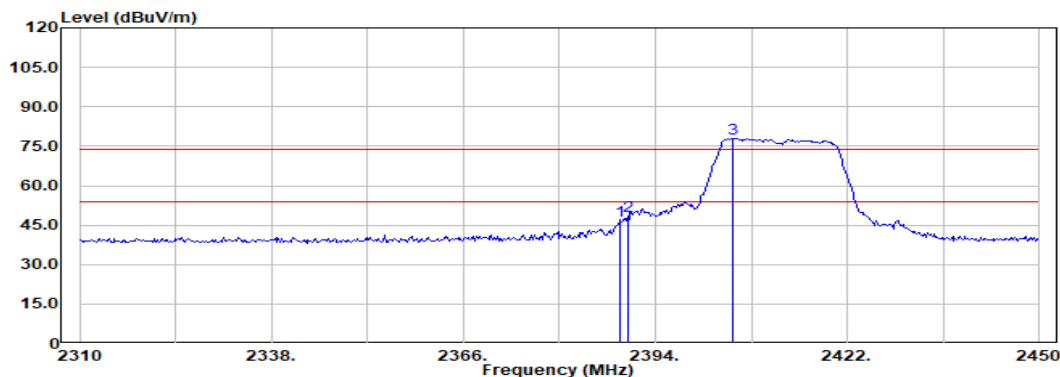
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Antenna Polarity :Vertical

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	2388.73	66.45	27.55	2.65	50.13	46.52	74.00	-27.48	Peak
	2390.00	68.52	27.55	2.66	50.13	48.60	74.00	-25.40	Peak
	2405.36	97.69	27.56	2.67	50.09	77.83	74.00	3.83	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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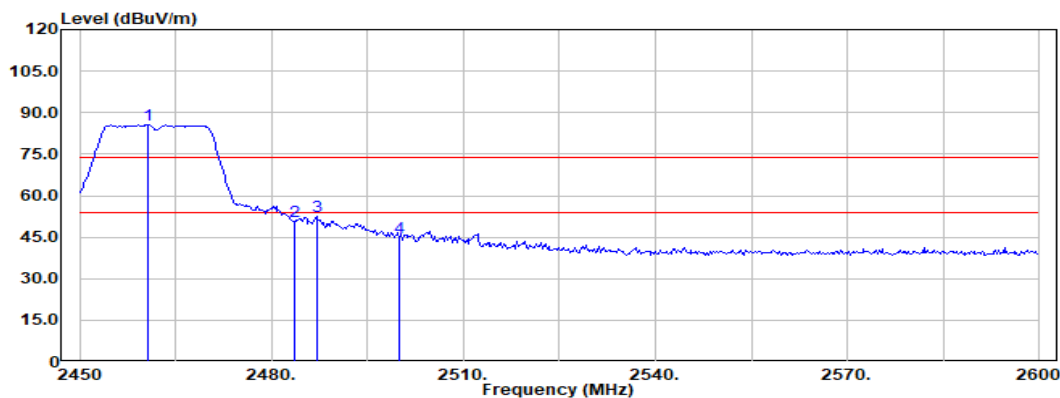
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Test Mode: 00; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 20MHz; Channel: High



Antenna Polarity :Horizontal

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	2460.65	105.15	27.57	2.71	49.85	85.58	74.00	11.58	Peak
	2483.50	70.34	27.58	2.73	49.90	50.75	74.00	-23.25	Peak
	2486.96	71.91	27.58	2.73	49.91	52.31	74.00	-21.69	Peak
	2500.00	64.39	27.59	2.74	49.94	44.78	74.00	-29.22	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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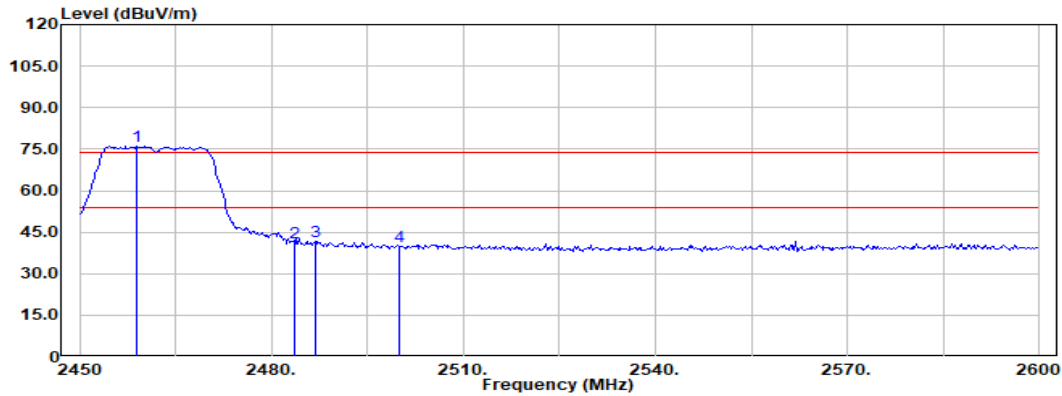
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Antenna Polarity :Vertical

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	2458.91	95.77	27.57	2.71	49.85	76.20	74.00	2.20	Peak
	2483.50	60.70	27.58	2.73	49.90	41.11	74.00	-32.89	Peak
	2486.74	61.34	27.58	2.73	49.91	41.74	74.00	-32.26	Peak
	2500.00	59.34	27.59	2.74	49.94	39.73	74.00	-34.27	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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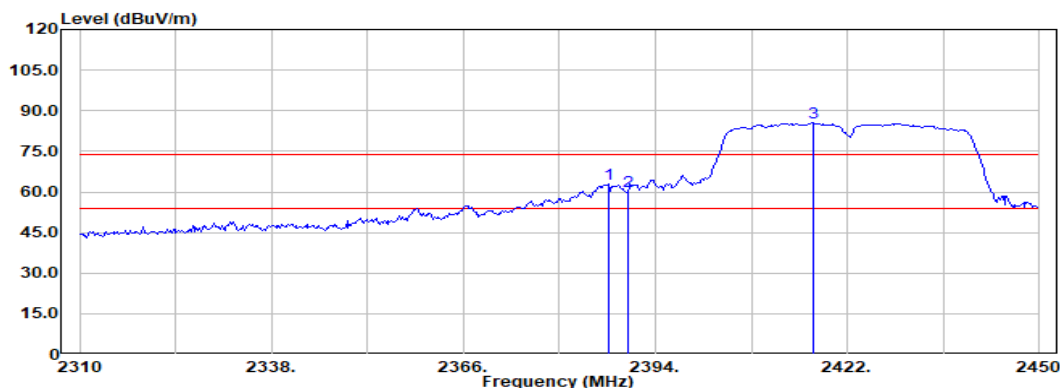
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Antenna Polarity :Horizontal

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2387.10		83.00	27.55	2.65	50.13	63.07	74.00	-10.93	Peak
2390.00		80.29	27.55	2.66	50.13	60.37	74.00	-13.63	Peak
2417.13		105.21	27.56	2.68	50.02	85.43	74.00	11.43	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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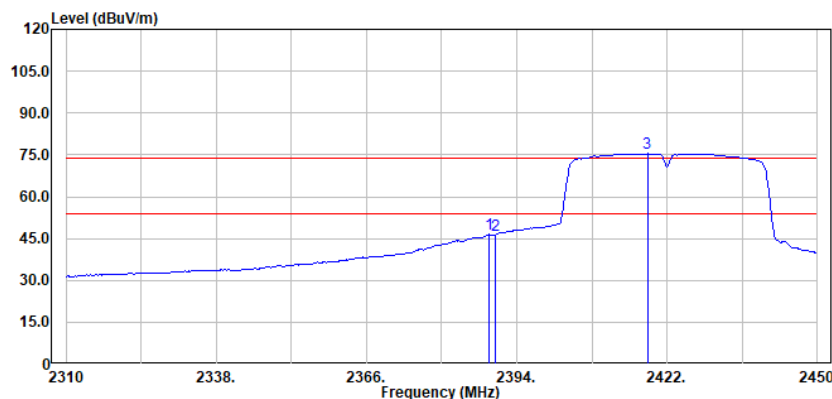
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Antenna Polarity :Horizontal

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2388.73		66.39	27.55	2.65	50.13	46.46	54.00	-7.54	Average
2390.00		66.31	27.55	2.66	50.13	46.39	54.00	-7.61	Average
2418.35		95.22	27.56	2.68	50.01	75.45	54.00	21.45	Average

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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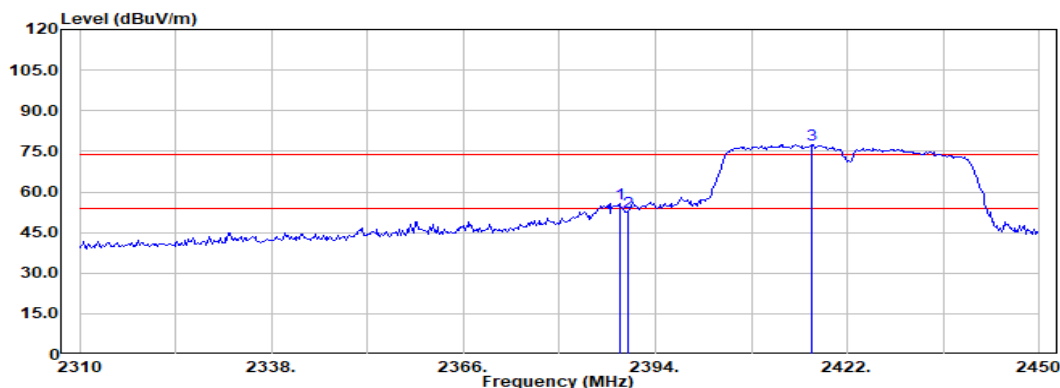
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Antenna Polarity :Vertical

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	2388.73	75.62	27.55	2.65	50.13	55.69	74.00	-18.31	Peak
	2390.00	72.31	27.55	2.66	50.13	52.39	74.00	-21.61	Peak
	2416.93	97.24	27.56	2.68	50.02	77.46	74.00	3.46	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

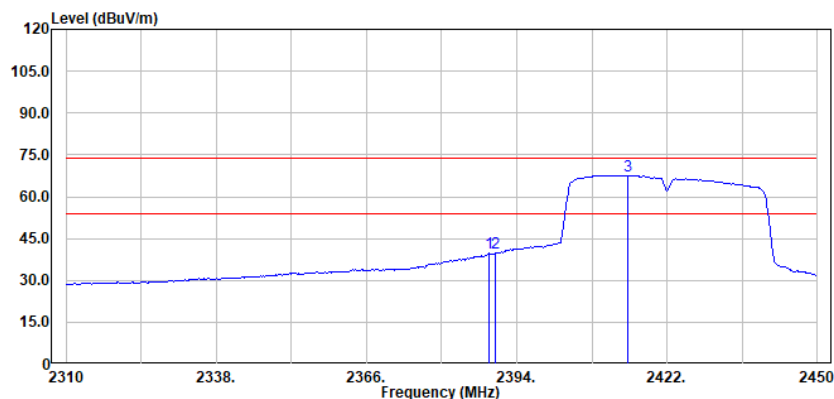


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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Antenna Polarity :Vertical

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2388.73		59.59	27.55	2.65	50.13	39.66	54.00	-14.34	Average
2390.00		59.62	27.55	2.66	50.13	39.70	54.00	-14.30	Average
2414.70		87.47	27.56	2.68	50.03	67.68	54.00	13.68	Average

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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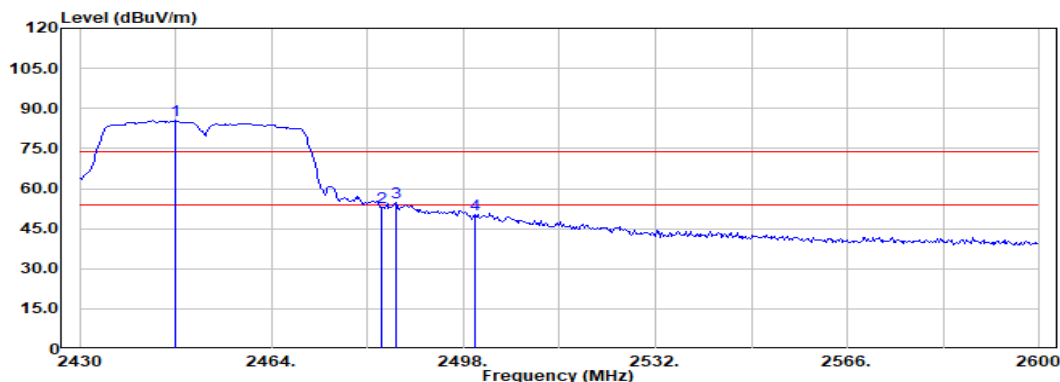
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Antenna Polarity :Horizontal

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2446.75		104.98	27.57	2.70	49.85	85.40	74.00	11.40	Peak
2483.50		72.57	27.58	2.73	49.90	52.98	74.00	-21.02	Peak
2485.93		74.18	27.58	2.73	49.91	54.58	74.00	-19.42	Peak
2500.00		69.76	27.59	2.74	49.94	50.15	74.00	-23.85	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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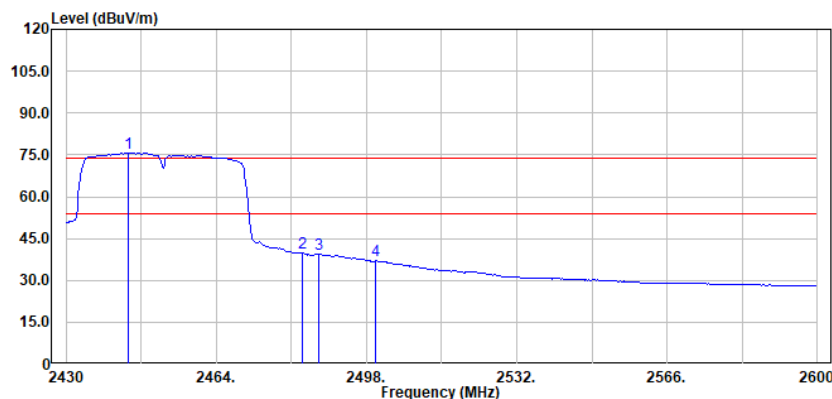
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Antenna Polarity :Horizontal

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2444.04		95.24	27.57	2.70	49.86	75.65	54.00	21.65	Average
2483.50		59.24	27.58	2.73	49.90	39.65	54.00	-14.35	Average
2487.16		59.13	27.58	2.73	49.91	39.53	54.00	-14.47	Average
2500.00		56.54	27.59	2.74	49.94	36.93	54.00	-17.07	Average

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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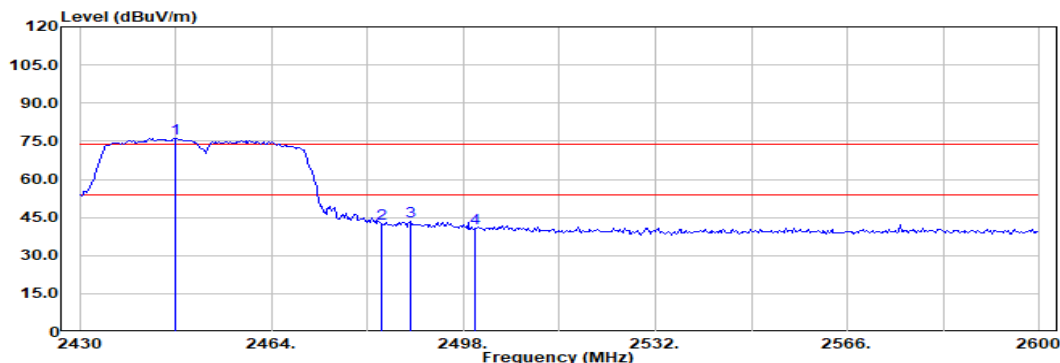
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Antenna Polarity :Vertical

No.	Freq MHz	Read level dBuV	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Remark
	2447.00	95.60	27.57	2.70	49.85	76.02	74.00	2.02	Peak
	2483.50	62.23	27.58	2.73	49.90	42.64	74.00	-31.36	Peak
	2488.64	63.02	27.58	2.74	49.92	43.42	74.00	-30.58	Peak
	2500.00	60.18	27.59	2.74	49.94	40.57	74.00	-33.43	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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7.8 Radiated Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.4,6.5

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
960-1000	500	3

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 20.1 °C

Humidity: 42.4 % RH

Atmospheric Pressure: 1010 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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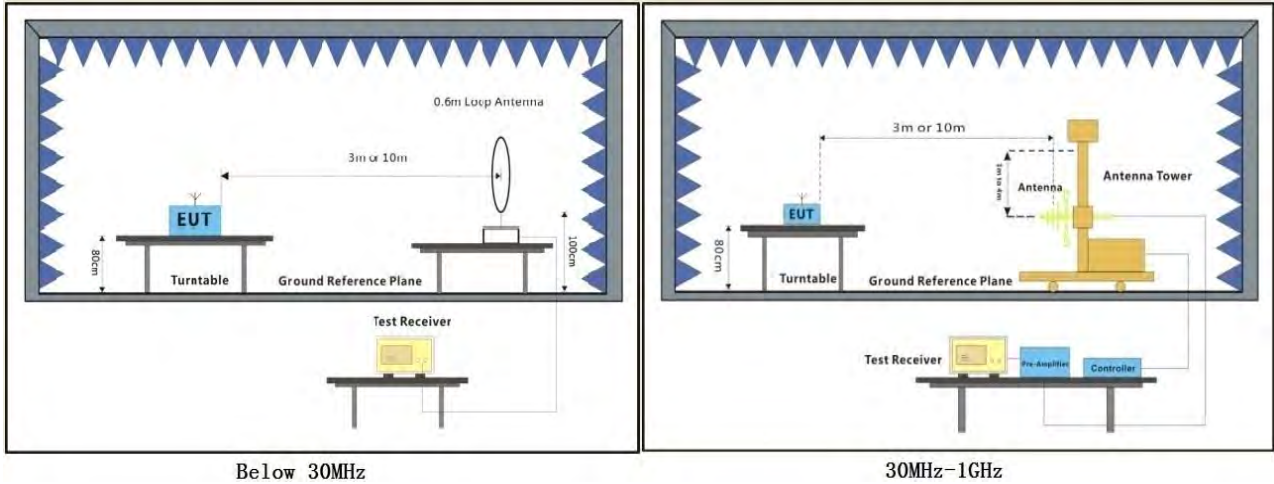
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7.8.3 Test Setup Diagram



Below 30MHz

30MHz-1GHz



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7.8.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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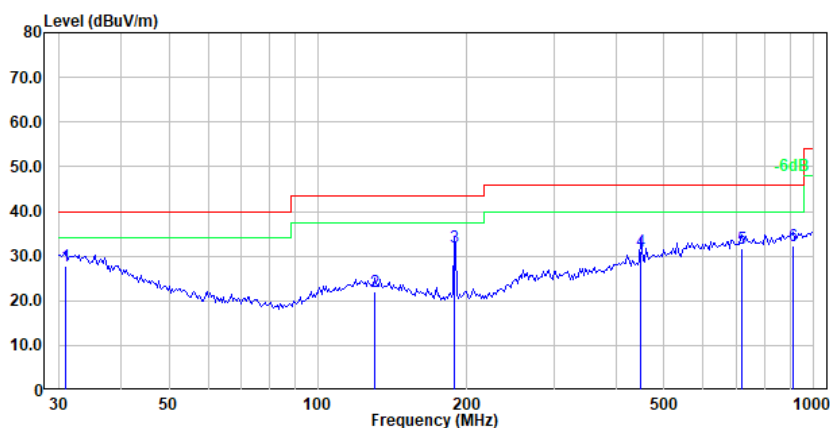
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Test Mode: 00; Polarity: Horizontal



Site: Chamber

Condition :

Mode:

No.	Freq (MHz)	Read level (dBUV)	LISN Factor (dB)	Cable Loss (dB)	Emission Level (dBUV)	Limit (dBUV)	Over Limit (dB)	Remark
1	30.85	2.55	24.91	0.23	27.69	40.00	-12.31	QP
2	129.92	2.61	18.40	0.98	21.99	43.50	-21.51	QP
3	188.41	15.72	15.23	1.13	32.08	43.50	-11.42	QP
4	449.56	6.81	22.66	1.58	31.05	46.00	-14.95	QP
5	719.20	3.61	25.53	2.43	31.57	46.00	-14.43	QP
6	912.86	3.09	26.67	2.50	32.26	46.00	-13.74	QP

Notes: Emission Level = Read Level + LISN Factor + Cable loss



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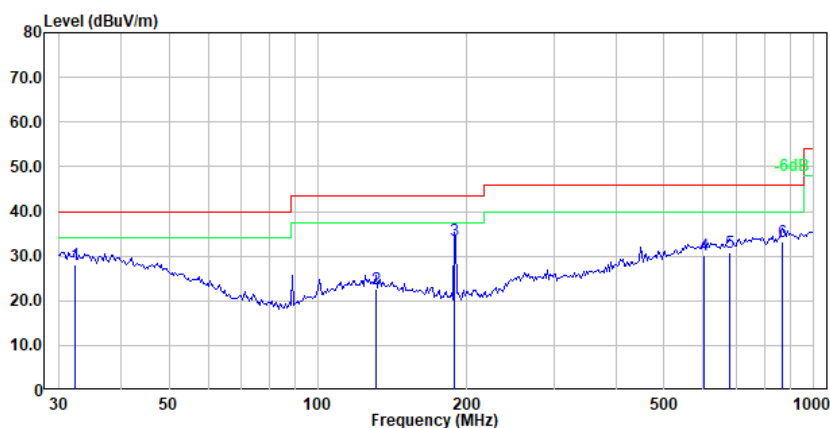
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Test Mode: 00; Polarity: Vertical



Site: Chamber

Condition :

Mode:

No.	Freq (MHz)	Read level (dBUV)	LISN Factor (dB)	Cable Loss (dB)	Emission Level (dBUV)	Limit (dBUV)	Over Limit (dB)	Remark
1	32.41	2.90	24.85	0.26	28.01	40.00	-11.99	QP
2	130.84	3.39	18.36	0.99	22.74	43.50	-20.76	QP
3	188.41	17.05	15.23	1.13	33.41	43.50	-10.09	QP
4	603.54	3.00	24.76	2.33	30.09	46.00	-15.91	QP
5	679.96	3.40	25.07	2.44	30.91	46.00	-15.09	QP
6	869.13	3.98	26.86	2.25	33.09	46.00	-12.91	QP

Notes: Emission Level = Read Level + LISN Factor + Cable loss



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7.9 Radiated Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.6

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1000	500	3

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 20.1 °C

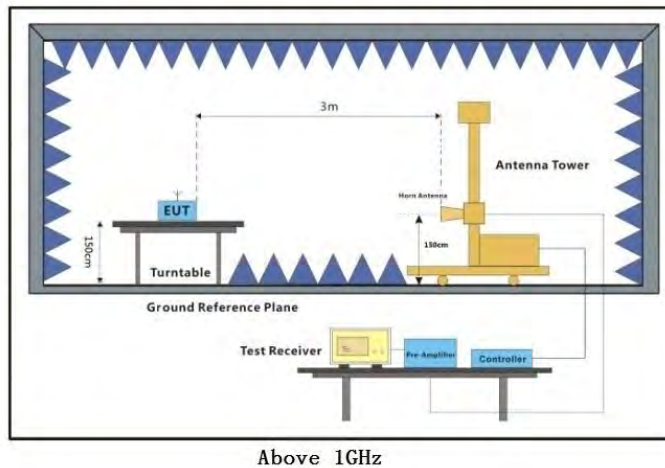
Humidity: 42.3 % RH

Atmospheric Pressure: 1010 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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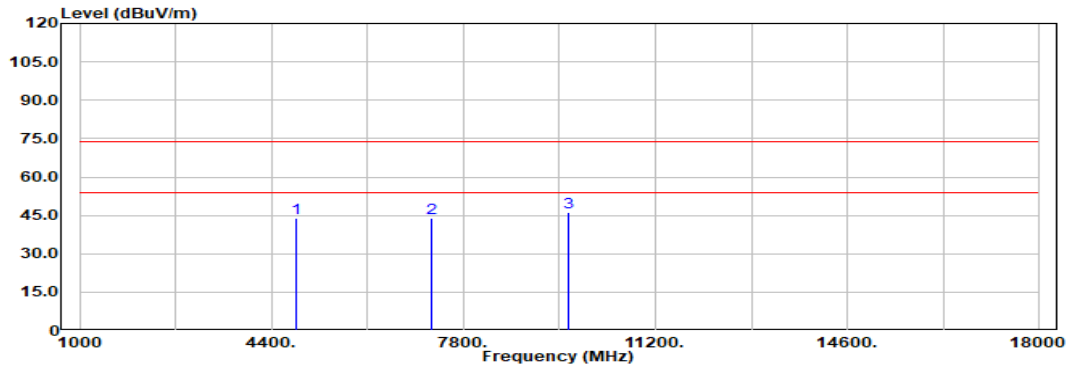
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Antenna Polarity :Horizontal

No.	Freq MHz	Read level dBuV	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Remark
	4824.00	56.29	31.30	4.14	47.80	43.93	74.00	-30.07	Peak
	7236.00	49.15	35.83	5.36	46.63	43.71	74.00	-30.29	Peak
	9648.00	48.30	38.24	5.72	46.15	46.11	74.00	-27.89	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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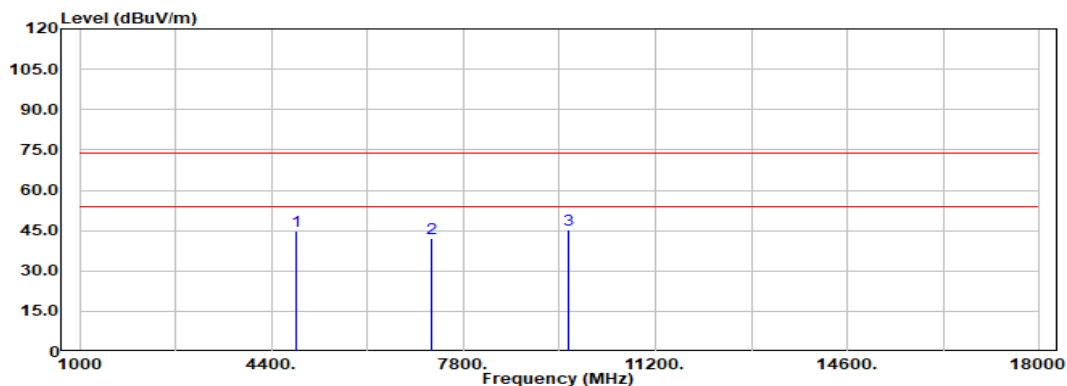
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Report No.: SHCR230800171101

Page: 54 of 130

Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Antenna Polarity :Vertical

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	4824.00	57.04	31.30	4.14	47.80	44.68	74.00	-29.32	Peak
	7236.00	47.75	35.83	5.36	46.63	42.31	74.00	-31.69	Peak
	9648.00	47.63	38.24	5.72	46.15	45.44	74.00	-28.56	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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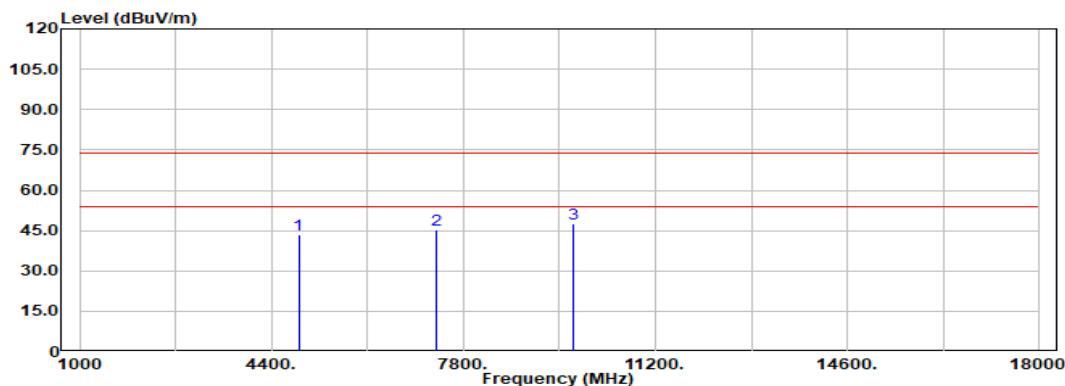
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Test Mode: 00; Polarity: Horizontal; Modulation: 802.11b; Bandwidth: 20MHz; Channel: middle



Antenna Polarity :Horizontal

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
	4874.00	55.49	31.41	4.17	47.77	43.30	74.00	-30.70	Peak
	7311.00	50.69	36.05	5.42	46.70	45.46	74.00	-28.54	Peak
	9748.00	49.75	38.34	5.74	46.11	47.72	74.00	-26.28	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



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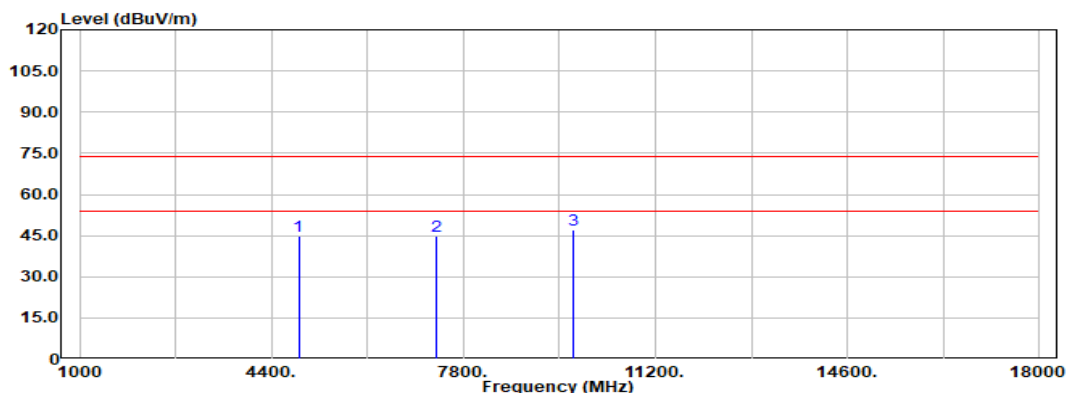
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Test Mode: 00; Polarity: Vertical; Modulation: 802.11b; Bandwidth: 20MHz; Channel: middle



Antenna Polarity :Vertical

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	4874.00	56.99	31.41	4.17	47.77	44.80	74.00	-29.20	Peak
	7311.00	49.88	36.05	5.42	46.70	44.65	74.00	-29.35	Peak
	9748.00	49.18	38.34	5.74	46.11	47.15	74.00	-26.85	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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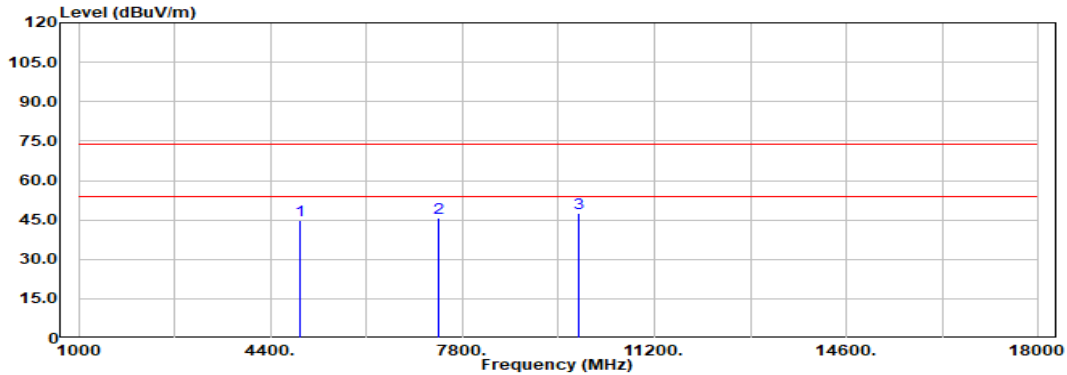
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Antenna Polarity :Horizontal

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	4924.00	56.85	31.51	4.19	47.74	44.81	74.00	-29.19	Peak
	7386.00	50.56	36.28	5.49	46.78	45.55	74.00	-28.45	Peak
	9848.00	49.50	38.44	5.77	46.06	47.65	74.00	-26.35	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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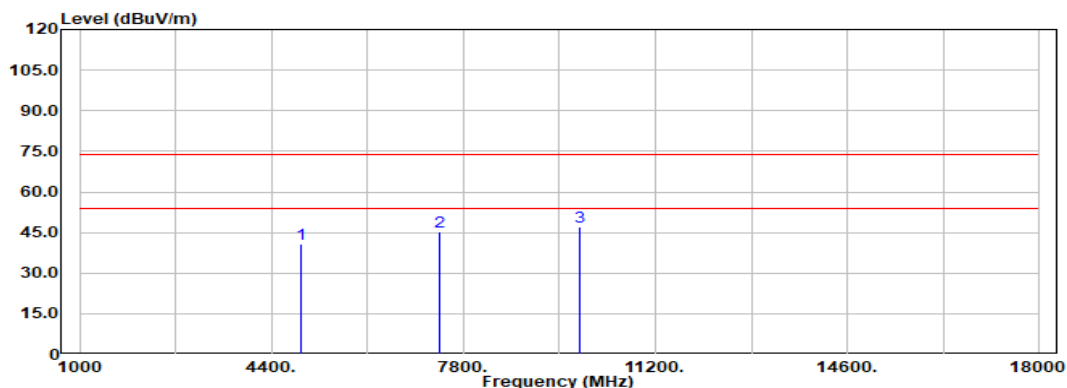
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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Antenna Polarity :Vertical

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
	4924.00	52.89	31.51	4.19	47.74	40.85	74.00	-33.15	Peak
	7386.00	50.13	36.28	5.49	46.78	45.12	74.00	-28.88	Peak
	9848.00	48.86	38.44	5.77	46.06	47.01	74.00	-26.99	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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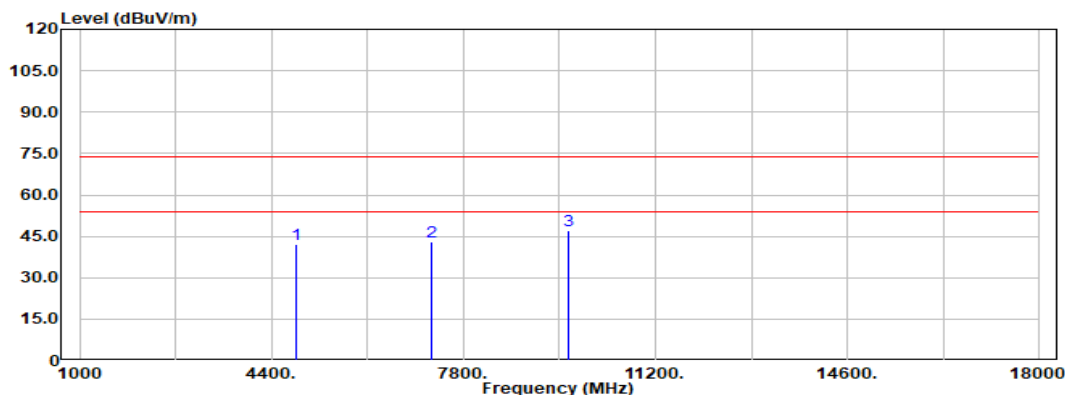
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Antenna Polarity :Horizontal

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	4824.00	54.50	31.30	4.14	47.80	42.14	74.00	-31.86	Peak
	7236.00	48.67	35.83	5.36	46.63	43.23	74.00	-30.77	Peak
	9648.00	49.35	38.24	5.72	46.15	47.16	74.00	-26.84	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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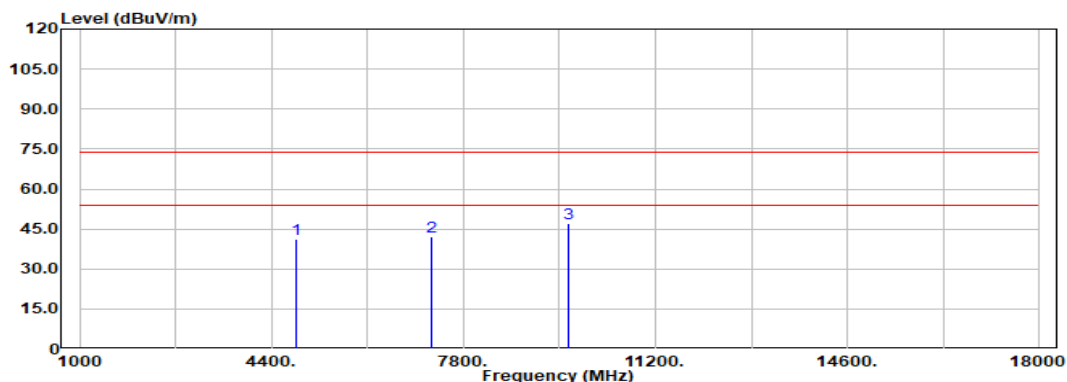
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Report No.: SHCR230800171101

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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Antenna Polarity :Vertical

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
4824.00		53.66	31.30	4.14	47.80	41.30	74.00	-32.70	Peak
7236.00		47.62	35.83	5.36	46.63	42.18	74.00	-31.82	Peak
9648.00		49.41	38.24	5.72	46.15	47.22	74.00	-26.78	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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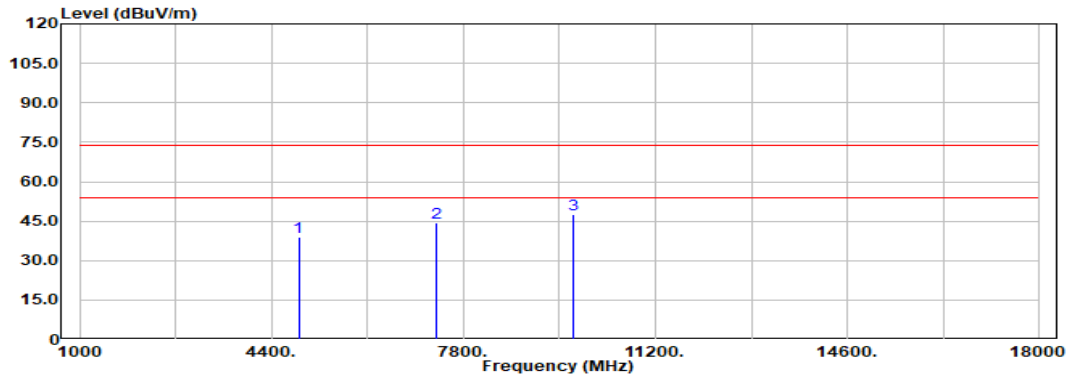
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Antenna Polarity :Horizontal

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
4874.00		51.21	31.41	4.17	47.77	39.02	74.00	-34.98	Peak
7311.00		49.53	36.05	5.42	46.70	44.30	74.00	-29.70	Peak
9748.00		49.49	38.34	5.74	46.11	47.46	74.00	-26.54	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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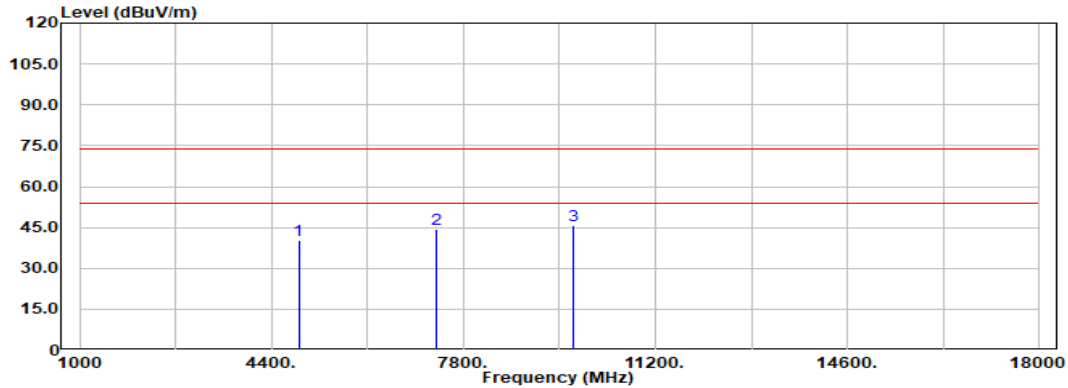
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Test Mode: 00; Polarity: Vertical; Modulation: 802.11g; Bandwidth: 20MHz; Channel: middle



Antenna Polarity :Vertical

No.	Freq MHz	Read level dBuV	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Remark
	4874.00	52.43	31.41	4.17	47.77	40.24	74.00	-33.76	Peak
	7311.00	49.67	36.05	5.42	46.70	44.44	74.00	-29.56	Peak
	9748.00	47.92	38.34	5.74	46.11	45.89	74.00	-28.11	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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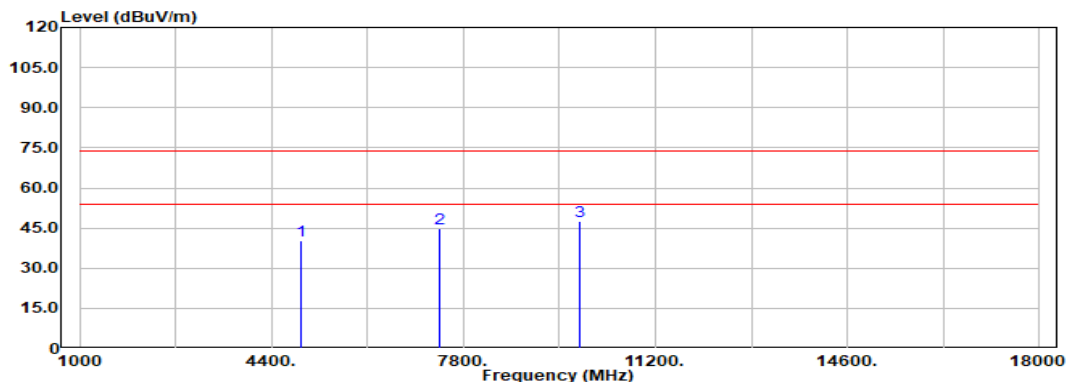
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Antenna Polarity :Horizontal

No.	Freq MHz	Read level dBuV	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Remark
	4924.00	52.16	31.51	4.19	47.74	40.12	74.00	-33.88	Peak
	7386.00	49.81	36.28	5.49	46.78	44.80	74.00	-29.20	Peak
	9848.00	49.45	38.44	5.77	46.06	47.60	74.00	-26.40	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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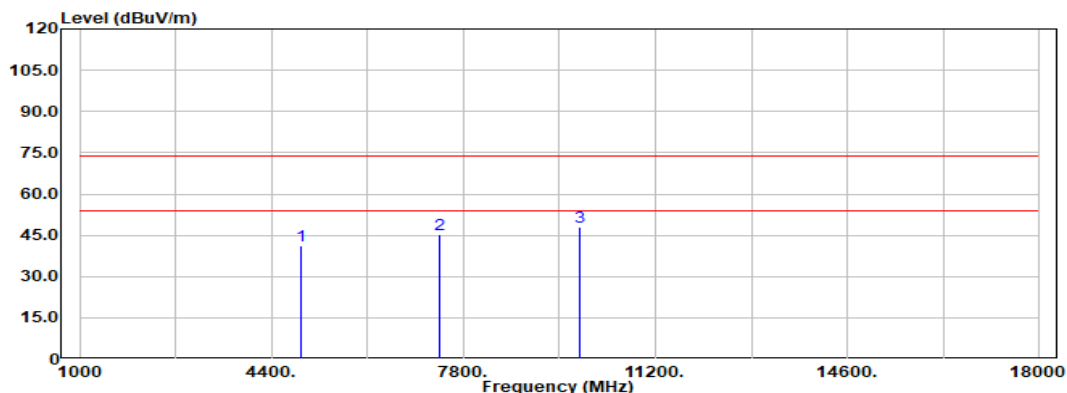
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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Antenna Polarity :Vertical

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	4924.00	53.07	31.51	4.19	47.74	41.03	74.00	-32.97	Peak
	7386.00	50.27	36.28	5.49	46.78	45.26	74.00	-28.74	Peak
	9848.00	49.67	38.44	5.77	46.06	47.82	74.00	-26.18	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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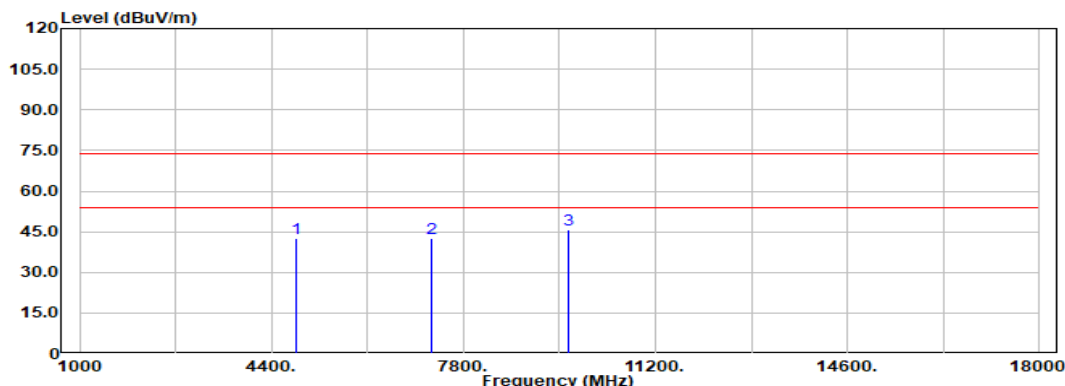
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Antenna Polarity :Horizontal

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
	4824.00	54.92	31.30	4.14	47.80	42.56	74.00	-31.44	Peak
	7236.00	48.02	35.83	5.36	46.63	42.58	74.00	-31.42	Peak
	9648.00	47.77	38.24	5.72	46.15	45.58	74.00	-28.42	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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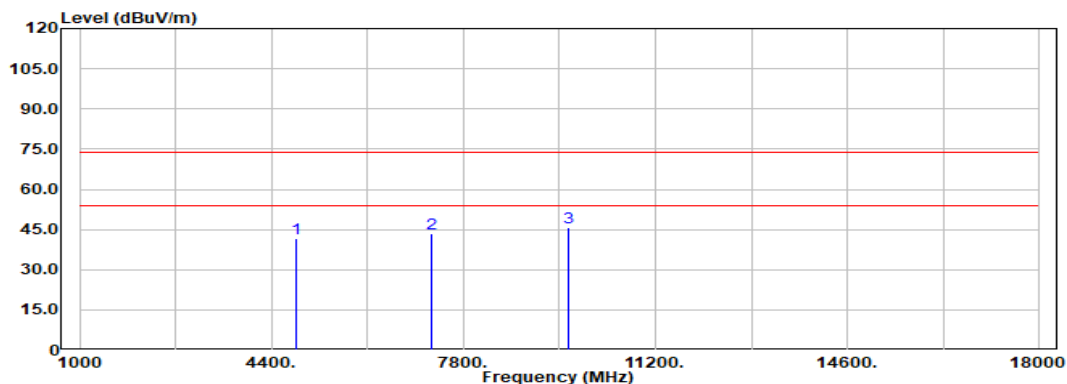
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Antenna Polarity :Vertical

No.	Freq MHz	Read level dBuV	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Remark
	4824.00	53.95	31.30	4.14	47.80	41.59	74.00	-32.41	Peak
	7236.00	49.03	35.83	5.36	46.63	43.59	74.00	-30.41	Peak
	9648.00	48.07	38.24	5.72	46.15	45.88	74.00	-28.12	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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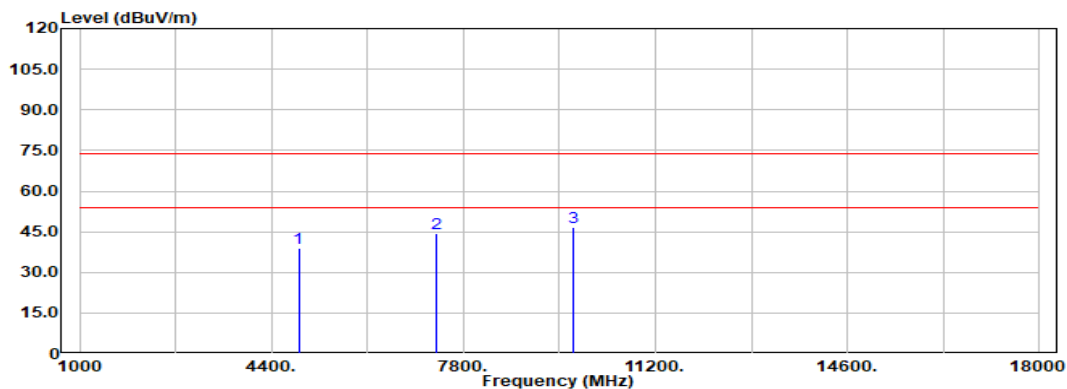
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Antenna Polarity :Horizontal

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
	4874.00	50.91	31.41	4.17	47.77	38.72	74.00	-35.28	Peak
	7311.00	49.62	36.05	5.42	46.70	44.39	74.00	-29.61	Peak
	9748.00	48.85	38.34	5.74	46.11	46.82	74.00	-27.18	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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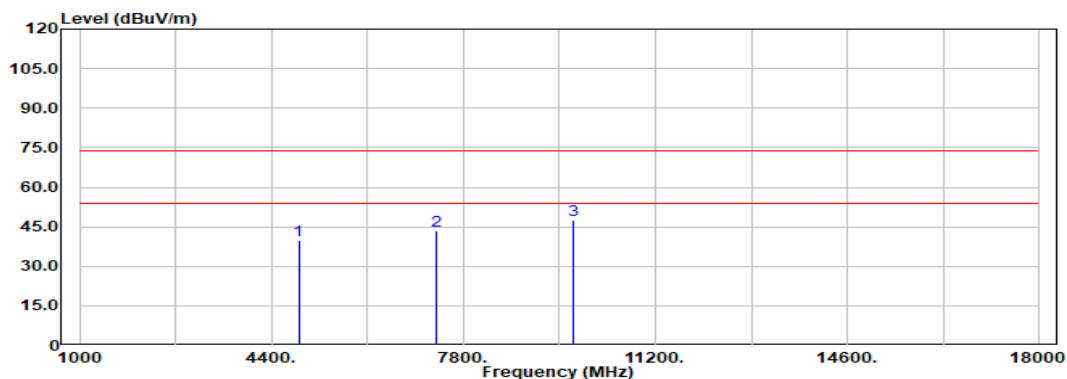
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Test Mode: 00; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 20MHz; Channel: middle



Antenna Polarity :Vertical

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
	4874.00	52.05	31.41	4.17	47.77	39.86	74.00	-34.14	Peak
	7311.00	48.85	36.05	5.42	46.70	43.62	74.00	-30.38	Peak
	9748.00	49.59	38.34	5.74	46.11	47.56	74.00	-26.44	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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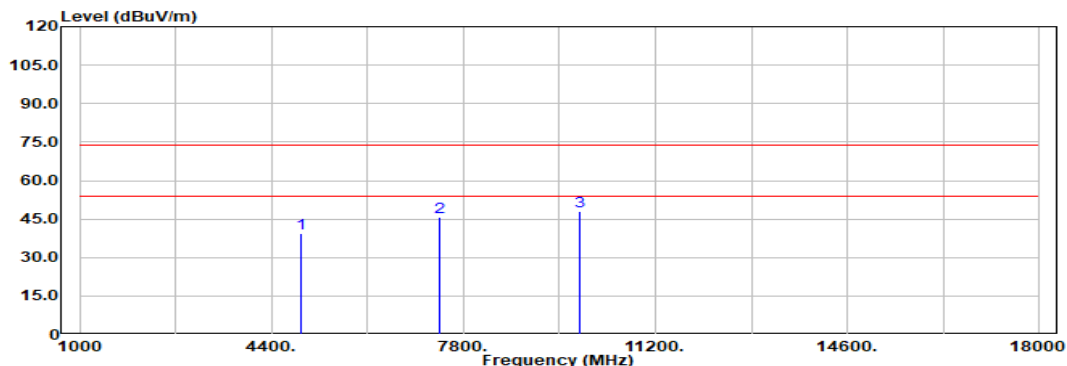
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Antenna Polarity :Horizontal

No.	Freq MHz	Read level dBuV	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Remark
	4924.00	51.48	31.51	4.19	47.74	39.44	74.00	-34.56	Peak
	7386.00	50.81	36.28	5.49	46.78	45.80	74.00	-28.20	Peak
	9848.00	49.80	38.44	5.77	46.06	47.95	74.00	-26.05	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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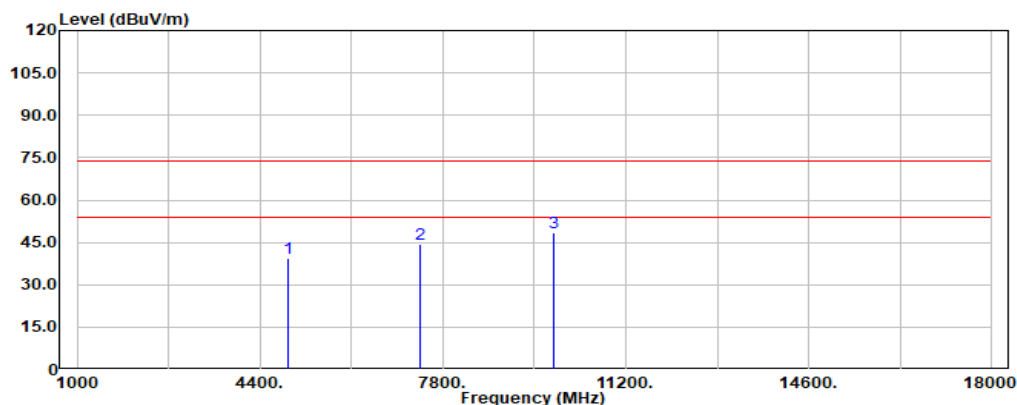
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Test Mode: 00; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 20MHz; Channel: High



Antenna Polarity :Vertical

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
	4924.00	51.59	31.51	4.19	47.74	39.55	74.00	-34.45	Peak
	7386.00	49.43	36.28	5.49	46.78	44.42	74.00	-29.58	Peak
	9848.00	50.42	38.44	5.77	46.06	48.57	74.00	-25.43	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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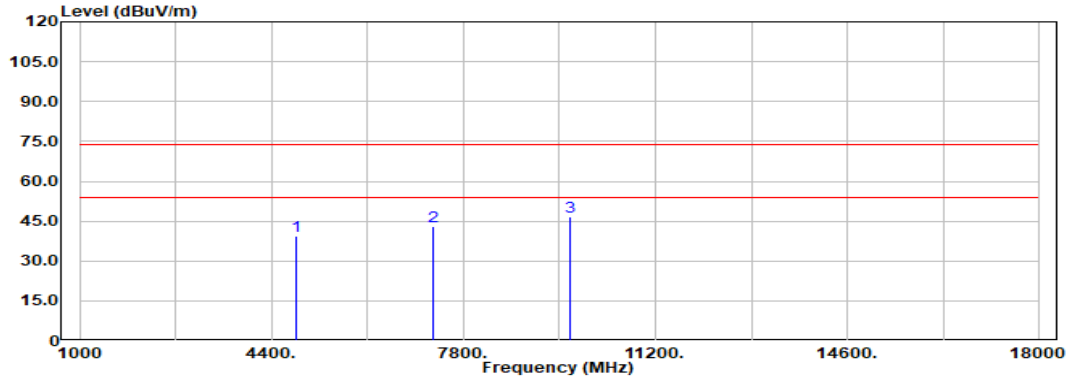
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Antenna Polarity :Horizontal

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
	4844.00	51.48	31.34	4.15	47.79	39.18	74.00	-34.82	Peak
	7266.00	48.51	35.92	5.38	46.66	43.15	74.00	-30.85	Peak
	9688.00	48.72	38.28	5.73	46.13	46.60	74.00	-27.40	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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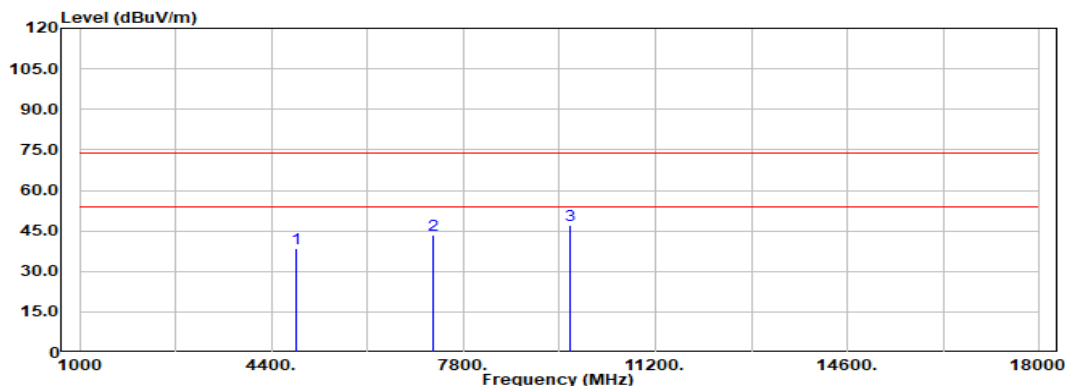
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Antenna Polarity :Vertical

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	4844.00	51.01	31.34	4.15	47.79	38.71	74.00	-35.29	Peak
	7266.00	48.82	35.92	5.38	46.66	43.46	74.00	-30.54	Peak
	9688.00	49.27	38.28	5.73	46.13	47.15	74.00	-26.85	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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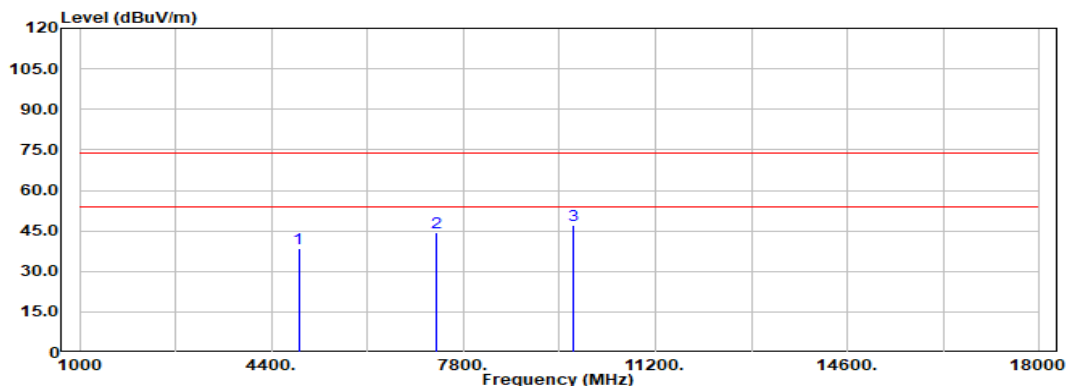
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Antenna Polarity :Horizontal

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	4874.00	50.55	31.41	4.17	47.77	38.36	74.00	-35.64	Peak
	7311.00	49.58	36.05	5.42	46.70	44.35	74.00	-29.65	Peak
	9748.00	49.07	38.34	5.74	46.11	47.04	74.00	-26.96	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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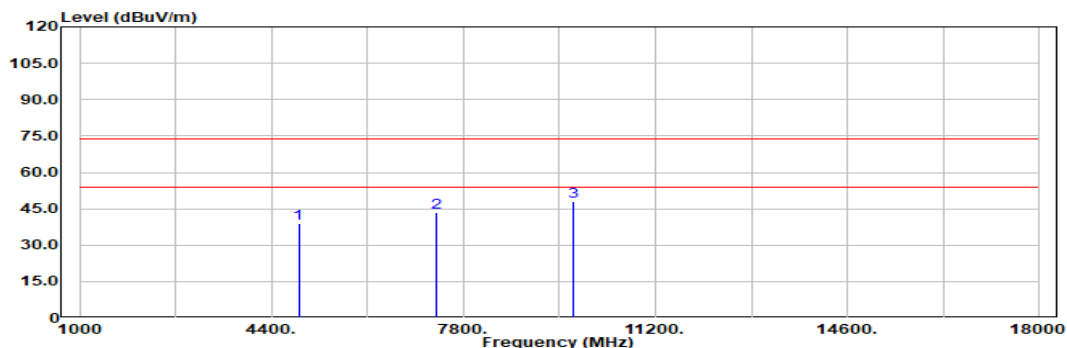
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Antenna Polarity :Vertical

No.	Freq MHz	Read level dBUv	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBUv/m	Limit Line dBUv/m	Over Limit dB	Remark
	4874.00	51.19	31.41	4.17	47.77	39.00	74.00	-35.00	Peak
	7311.00	48.56	36.05	5.42	46.70	43.33	74.00	-30.67	Peak
	9748.00	49.94	38.34	5.74	46.11	47.91	74.00	-26.09	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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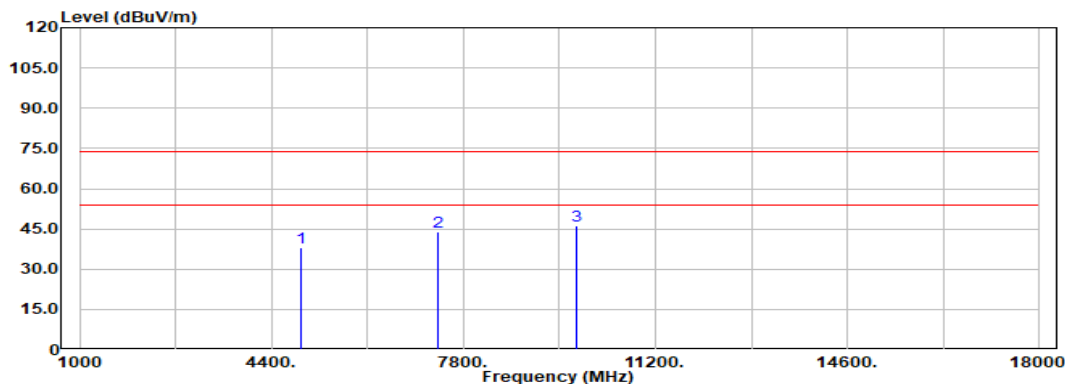
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Antenna Polarity :Horizontal

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4904.00	50.01	31.47	4.18	47.76	37.90	74.00	-36.10	Peak	
7356.00	49.06	36.19	5.46	46.75	43.96	74.00	-30.04	Peak	
9808.00	48.31	38.40	5.76	46.08	46.39	74.00	-27.61	Peak	

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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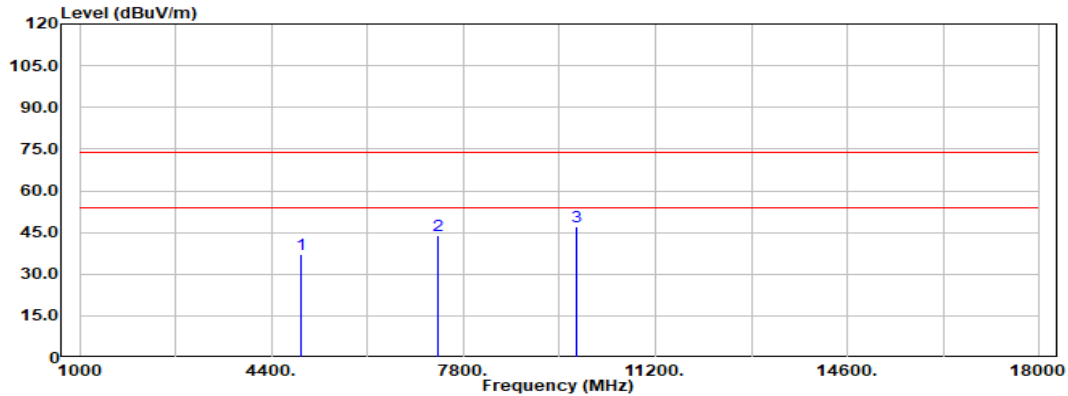
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Test Mode: 00; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 40MHz; Channel: High



Antenna Polarity :Vertical

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
	4904.00	49.44	31.47	4.18	47.76	37.33	74.00	-36.67	Peak
	7356.00	49.11	36.19	5.46	46.75	44.01	74.00	-29.99	Peak
	9808.00	49.04	38.40	5.76	46.08	47.12	74.00	-26.88	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SHCR2308001711AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for SHCR2308001711AT



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10 Appendix

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11g	SISO	2412	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11n (HT20)	SISO	2412	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11n (HT40)	SISO	2422	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2452	100.000	100.000	100.00	0.00	0.00



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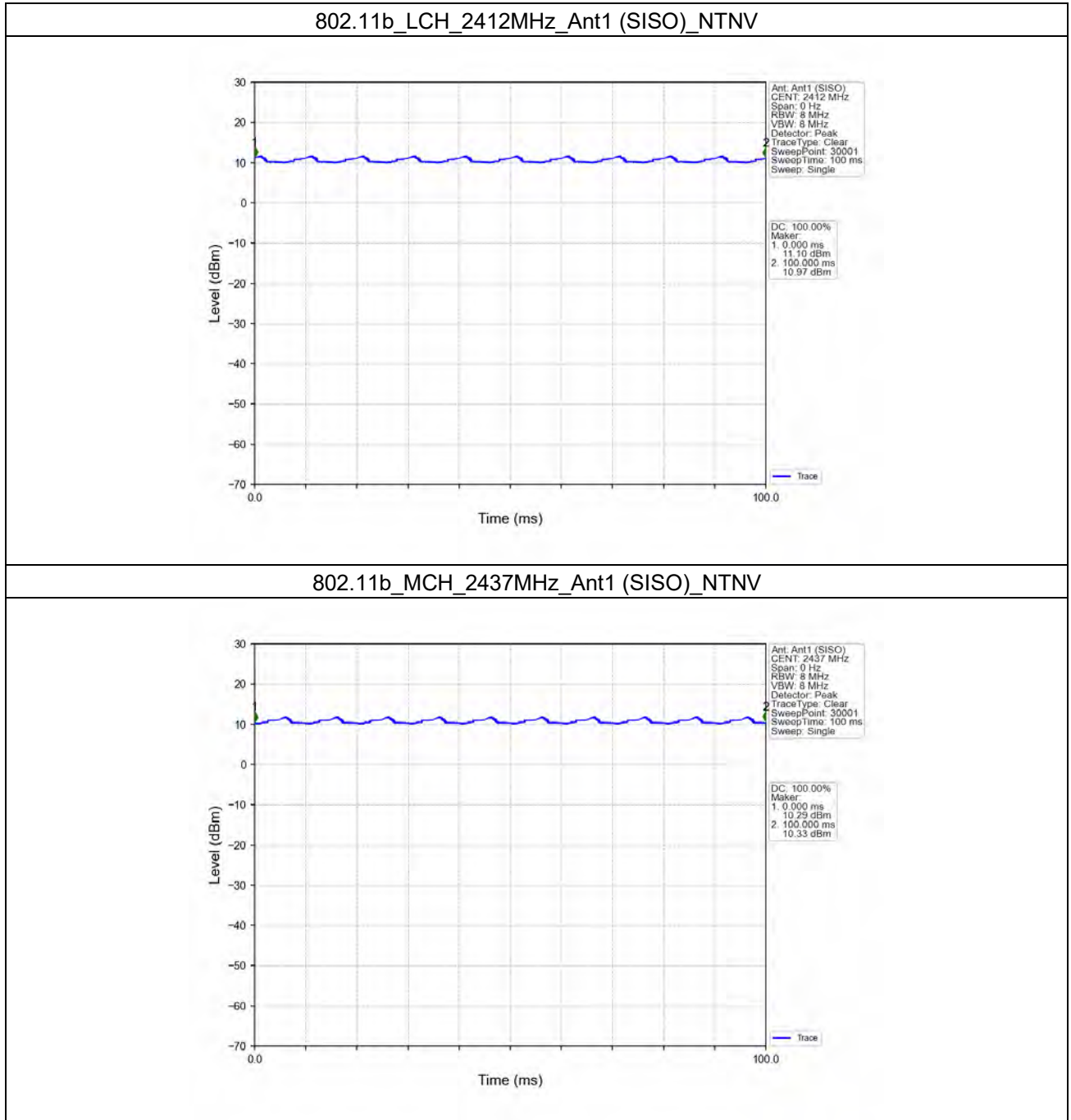
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1.1.2 Test Graph



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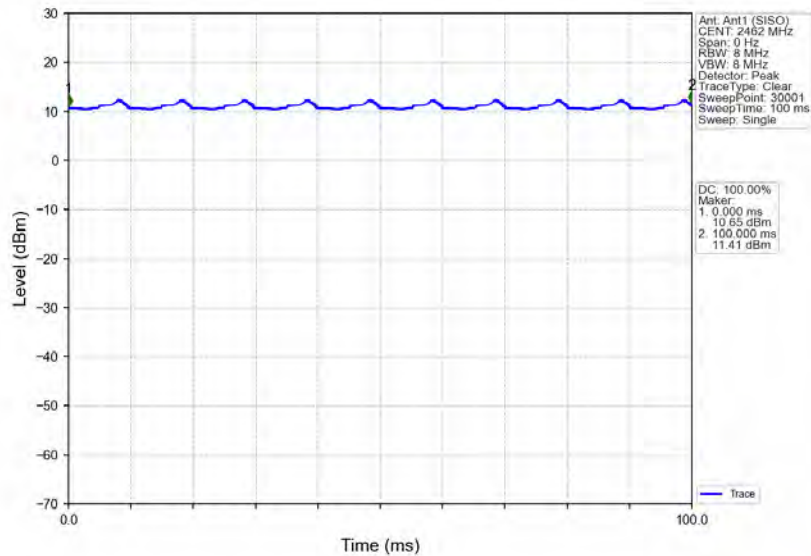
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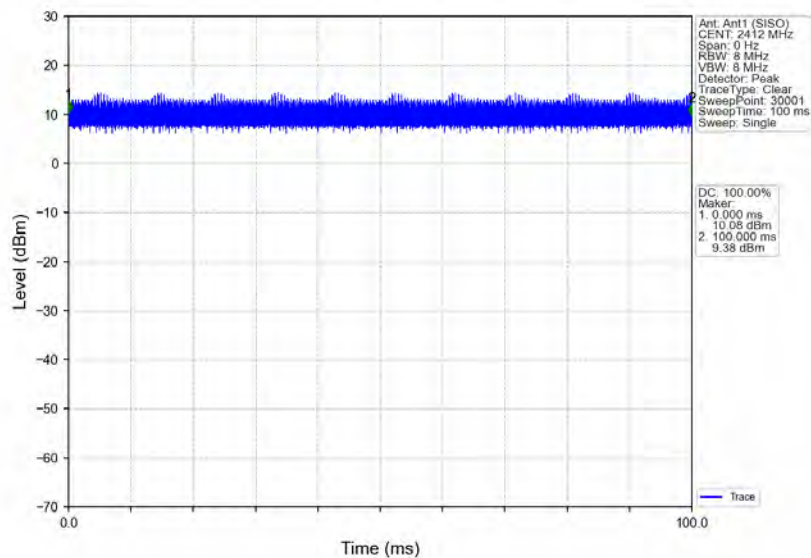
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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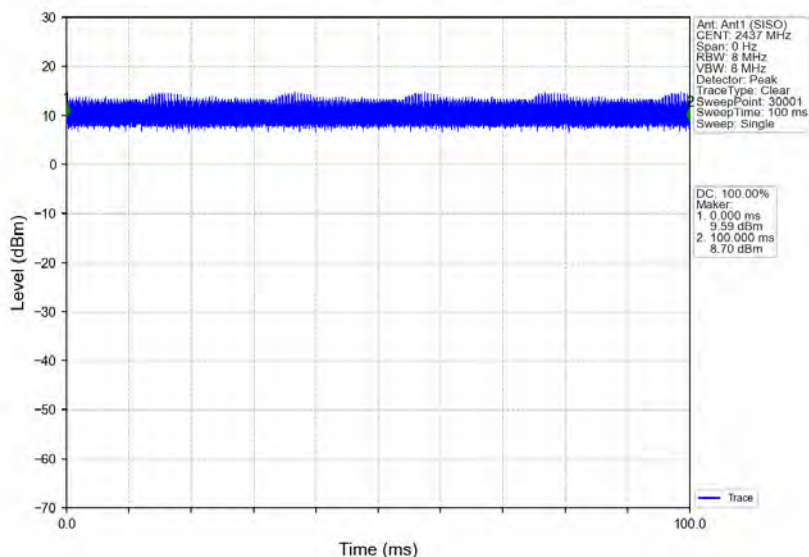
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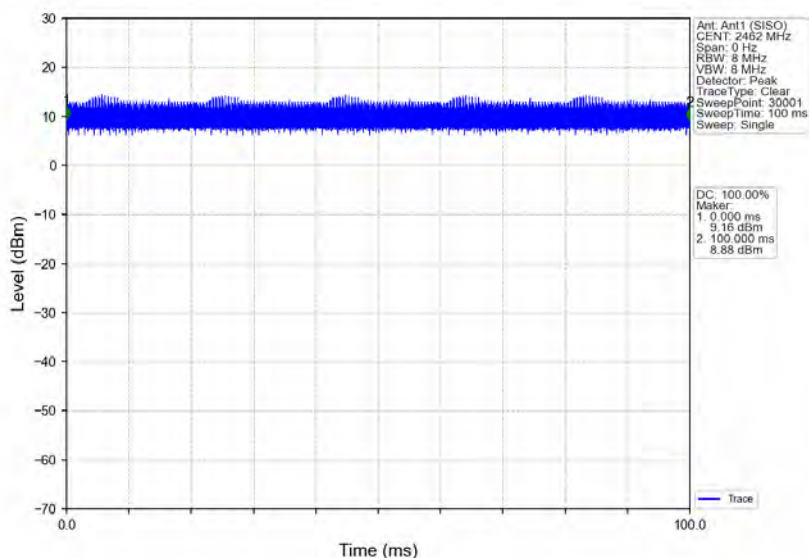
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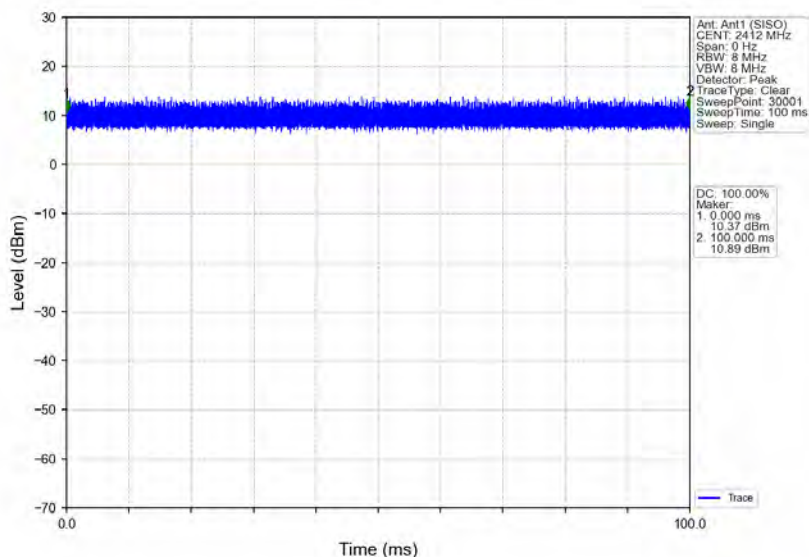
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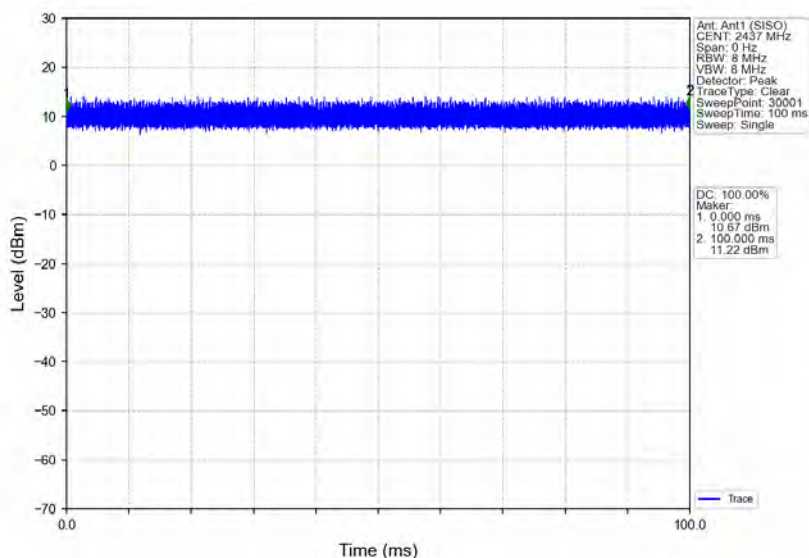
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802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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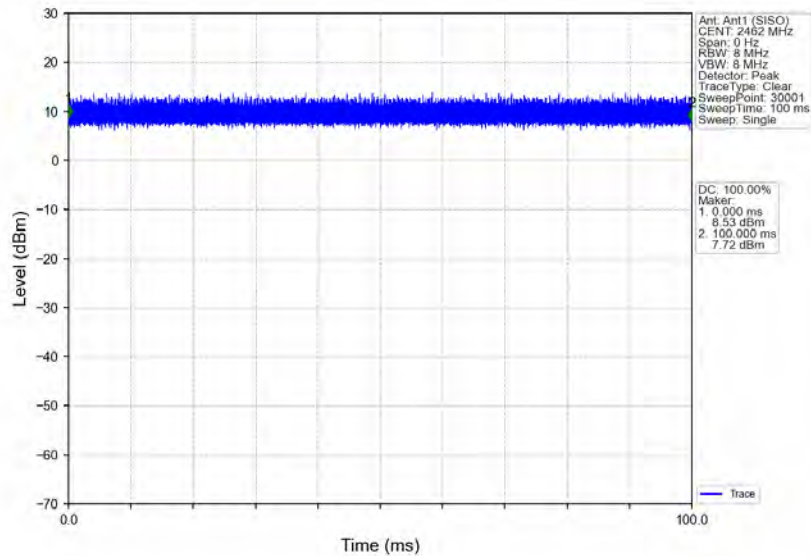
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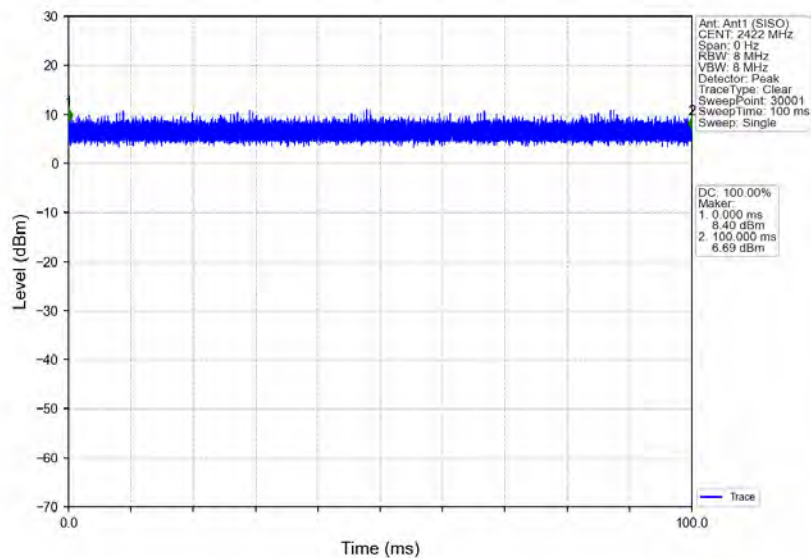
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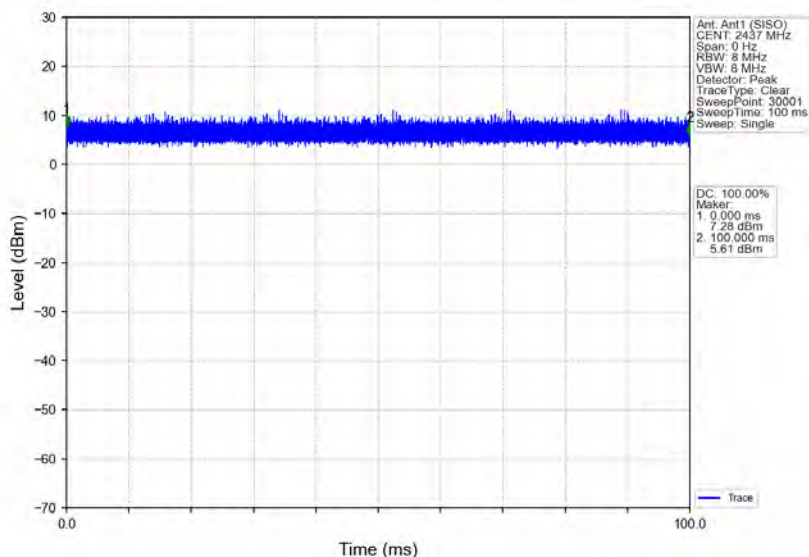
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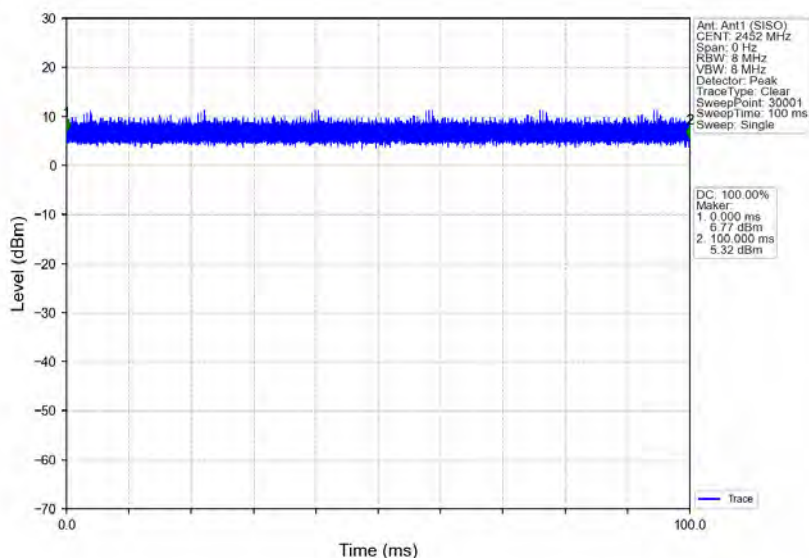
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802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	14.997	Pass
		2437	1	14.972	Pass
		2462	1	14.963	Pass
802.11g	SISO	2412	1	17.599	Pass
		2437	1	17.585	Pass
		2462	1	17.604	Pass
802.11n (HT20)	SISO	2412	1	18.450	Pass
		2437	1	18.421	Pass
		2462	1	18.432	Pass
802.11n (HT40)	SISO	2422	1	36.396	Pass
		2437	1	36.350	Pass
		2452	1	36.349	Pass



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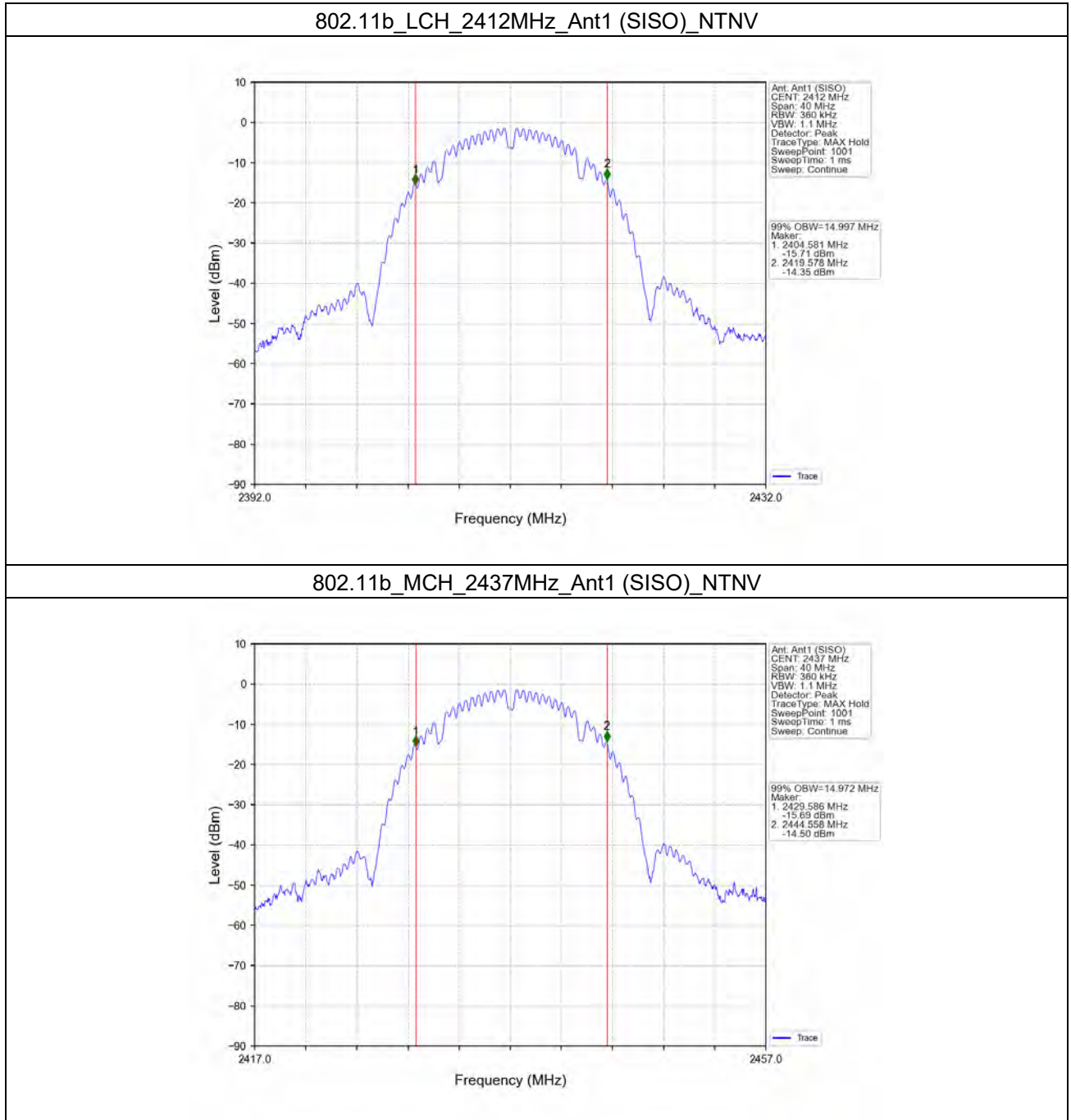
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2.1.2 Test Graph



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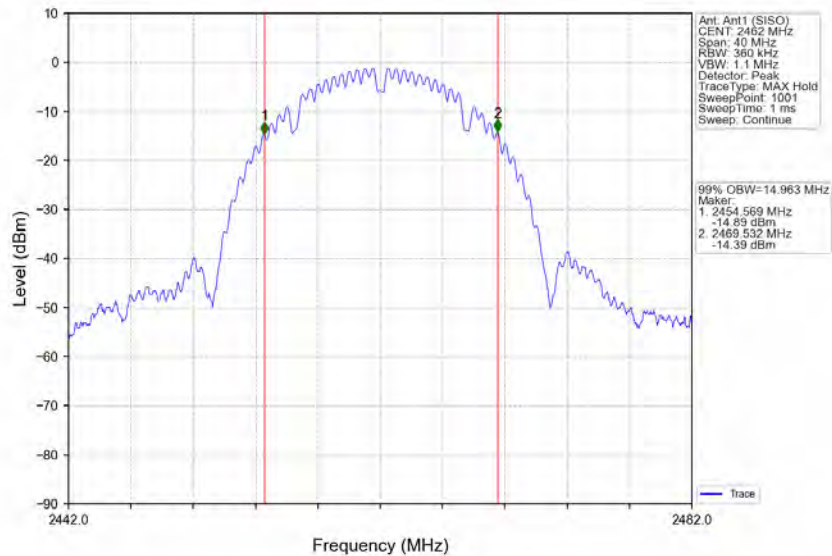
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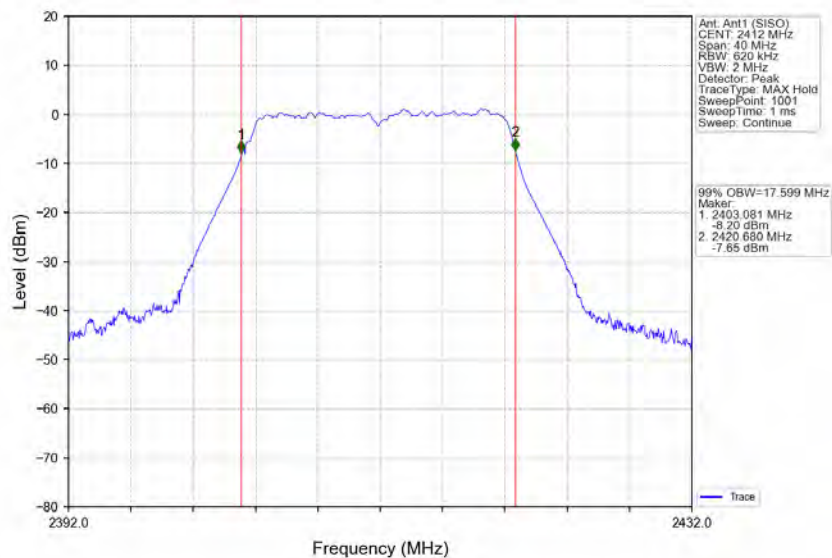
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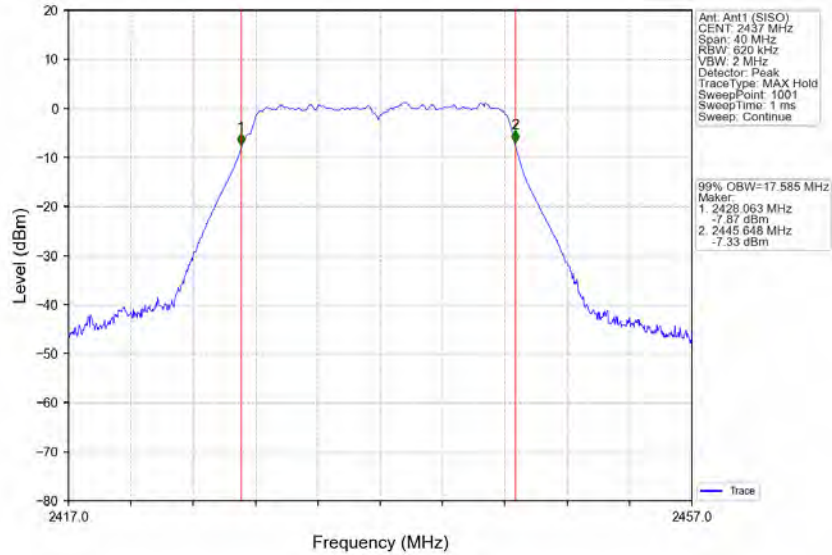
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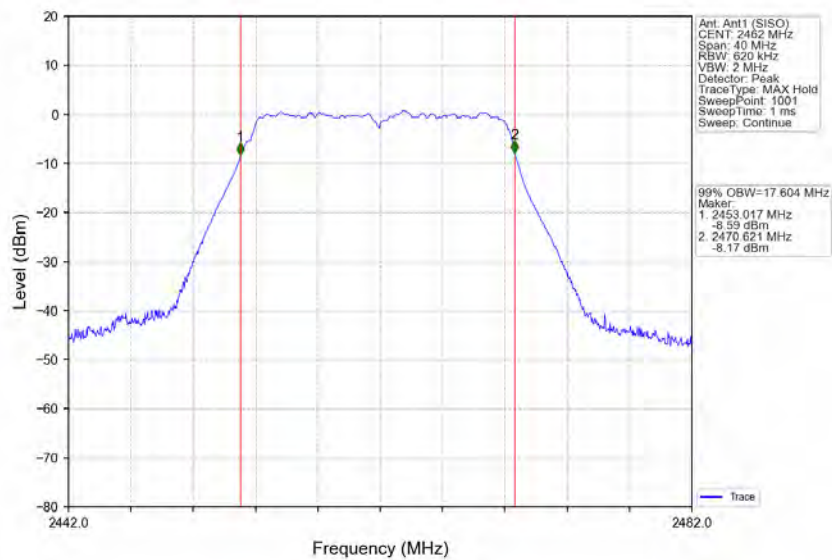
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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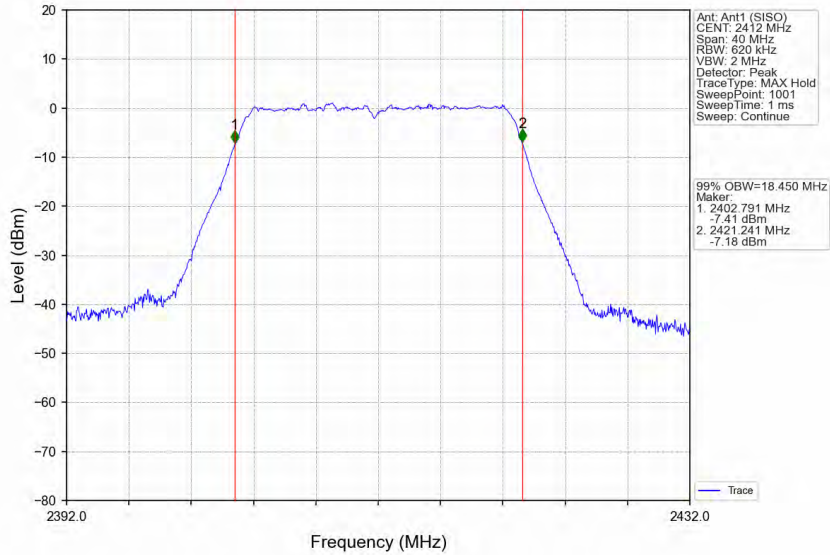
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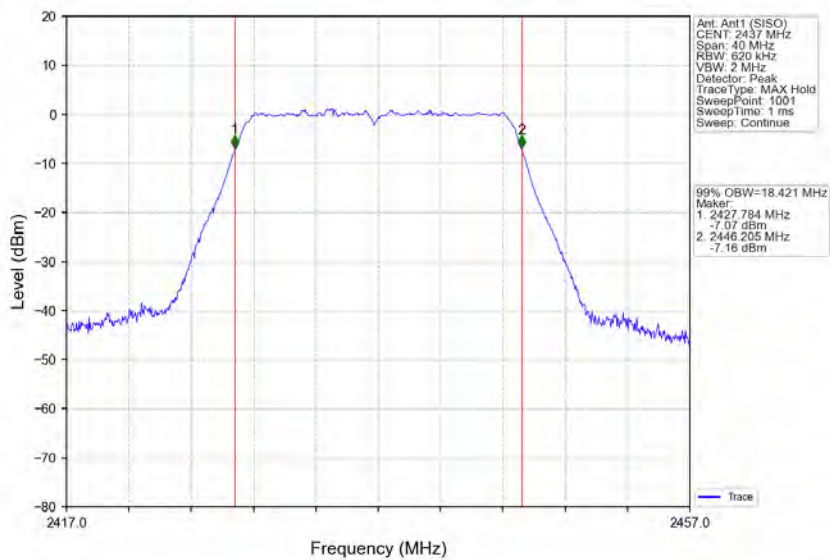
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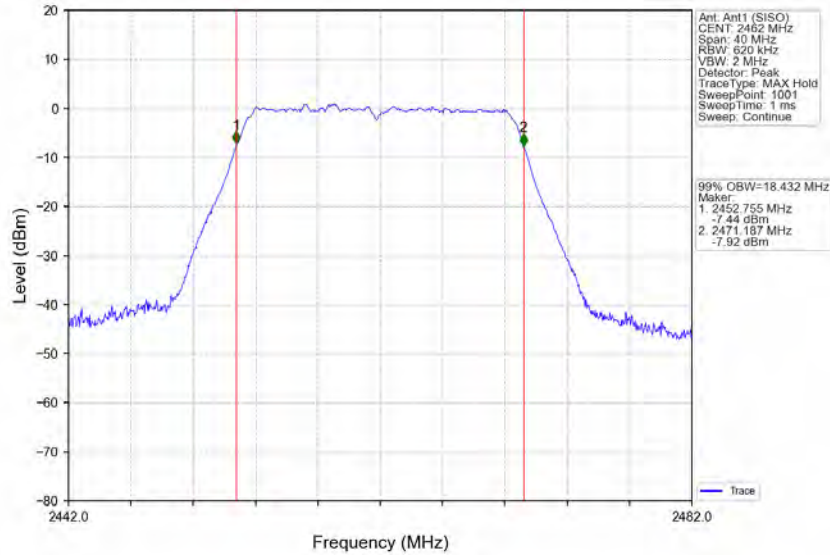
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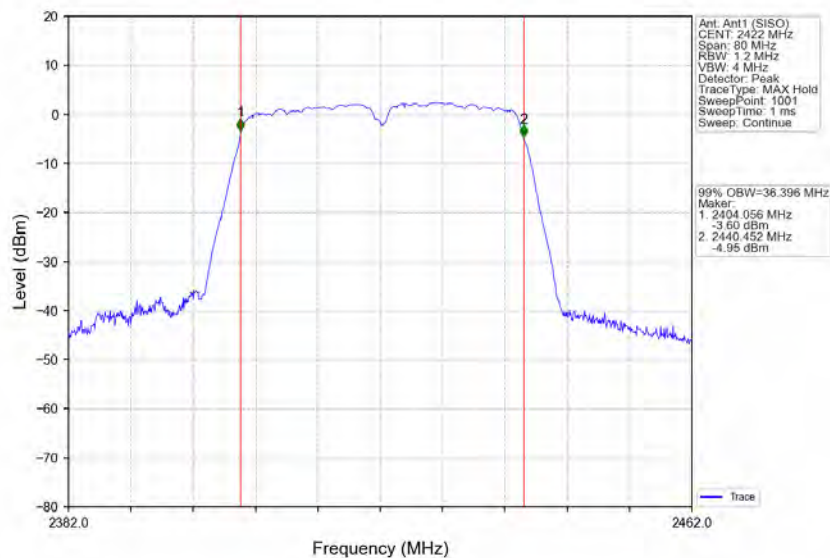
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802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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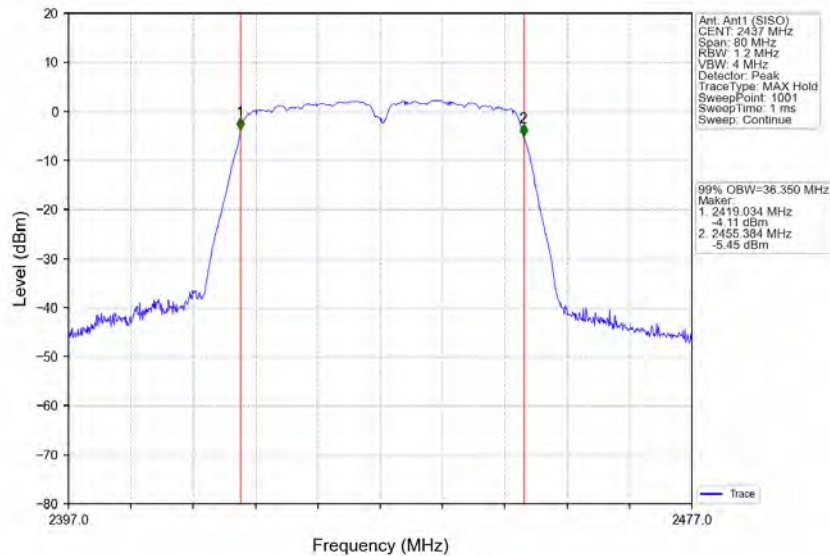
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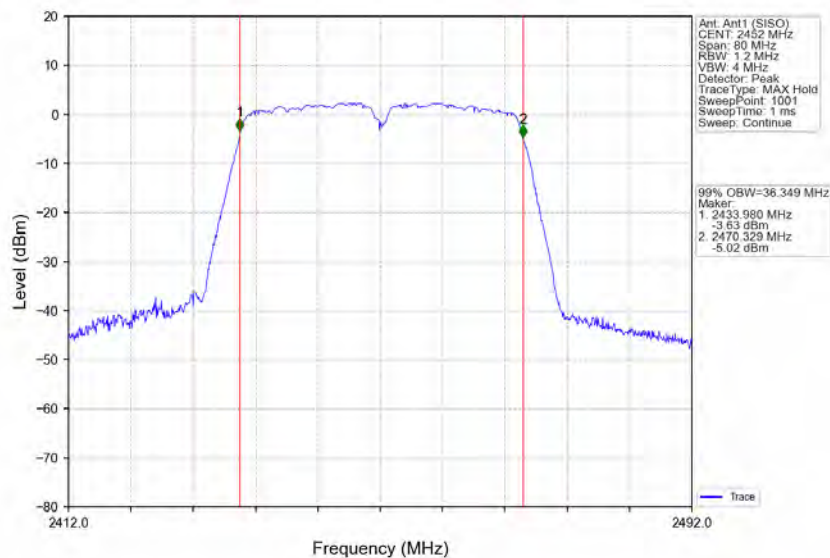
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802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	10.105	≥ 0.5	Pass
		2437	1	10.098	≥ 0.5	Pass
		2462	1	10.101	≥ 0.5	Pass
802.11g	SISO	2412	1	16.603	≥ 0.5	Pass
		2437	1	16.606	≥ 0.5	Pass
		2462	1	16.597	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	17.815	≥ 0.5	Pass
		2437	1	17.802	≥ 0.5	Pass
		2462	1	17.815	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	1	36.408	≥ 0.5	Pass
		2437	1	36.402	≥ 0.5	Pass
		2452	1	36.404	≥ 0.5	Pass



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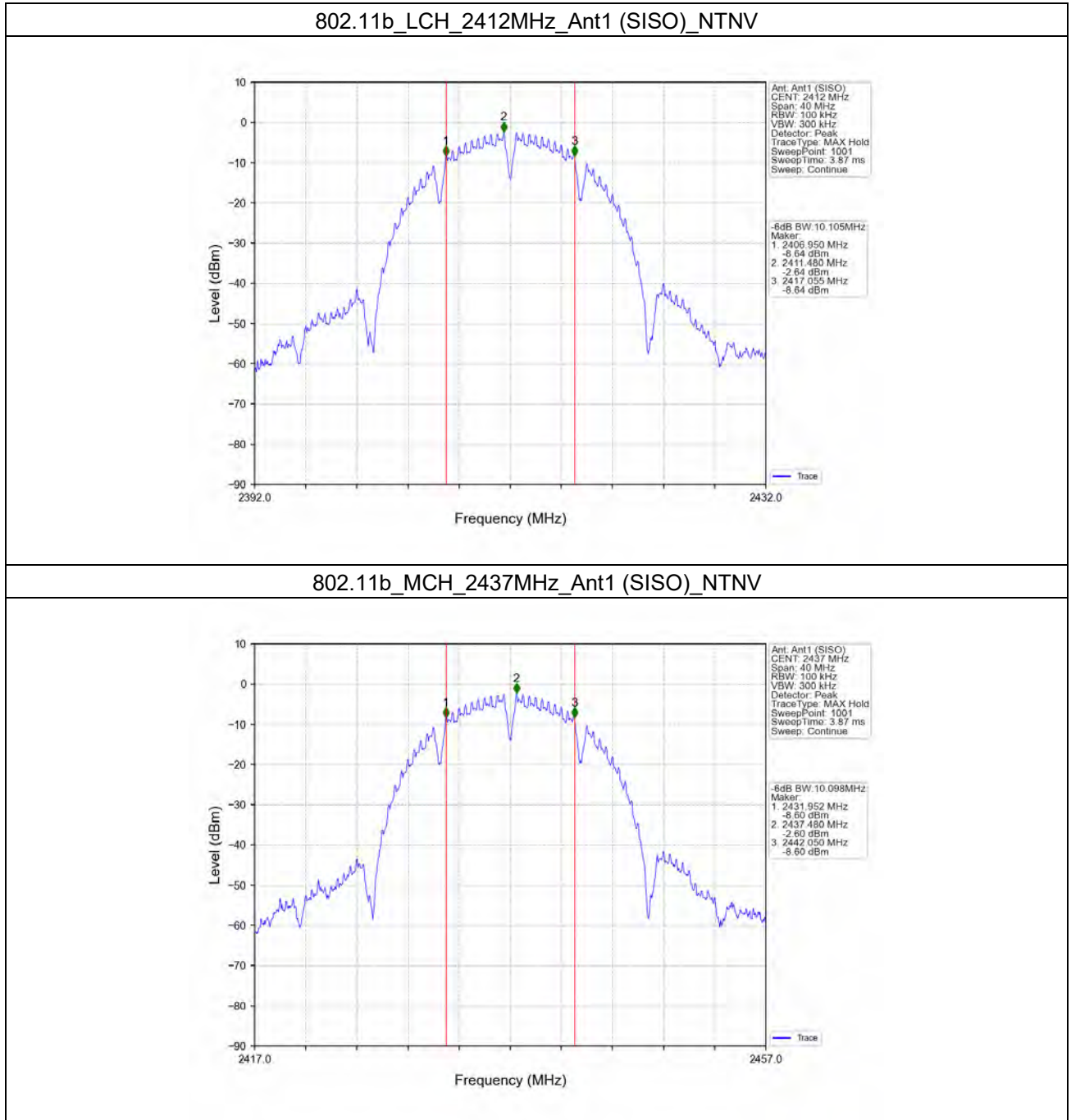
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2.2.2 Test Graph



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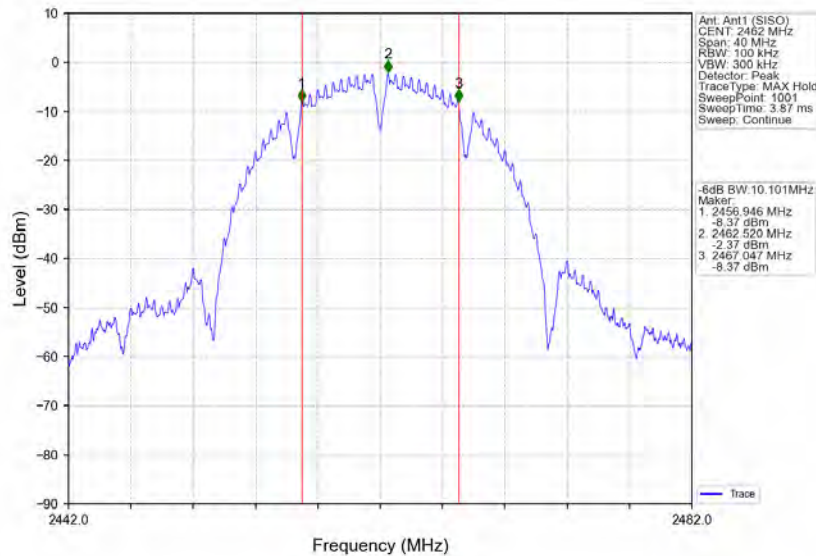
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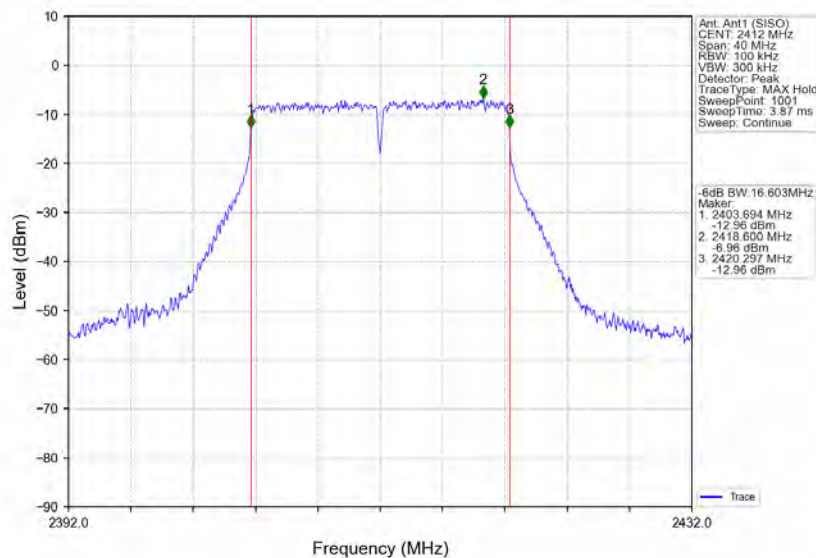
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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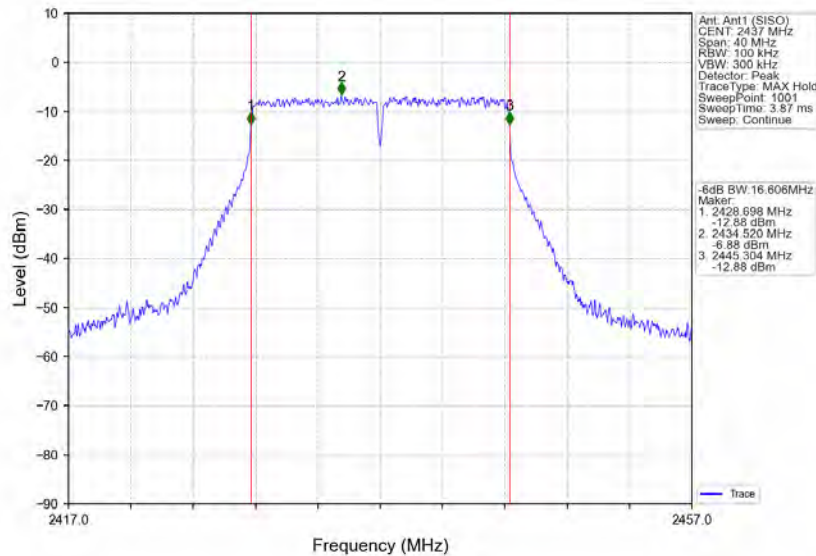
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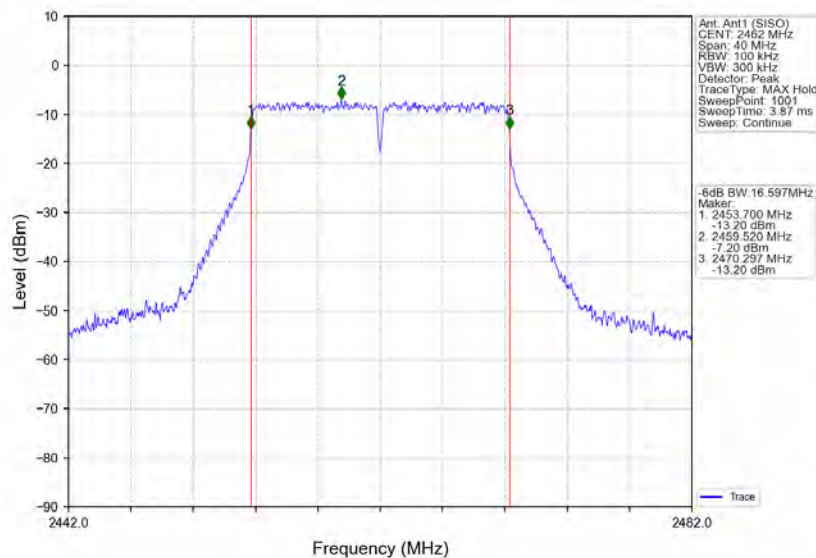
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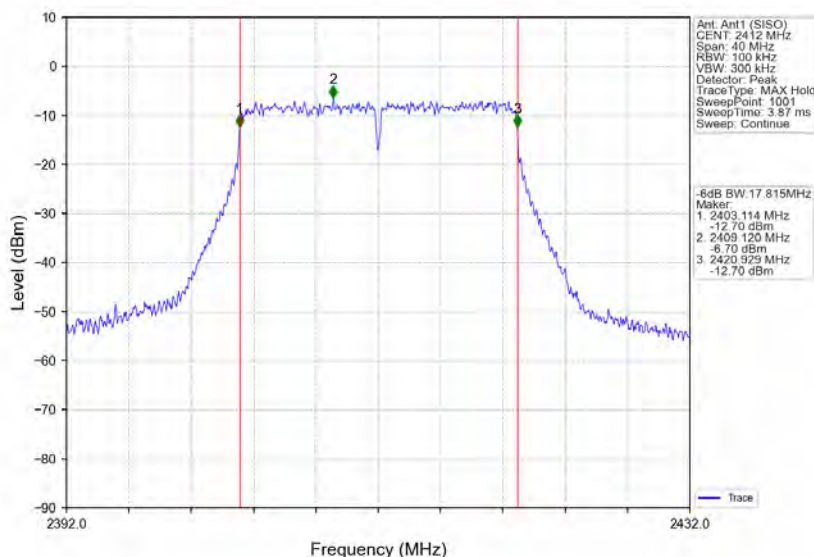
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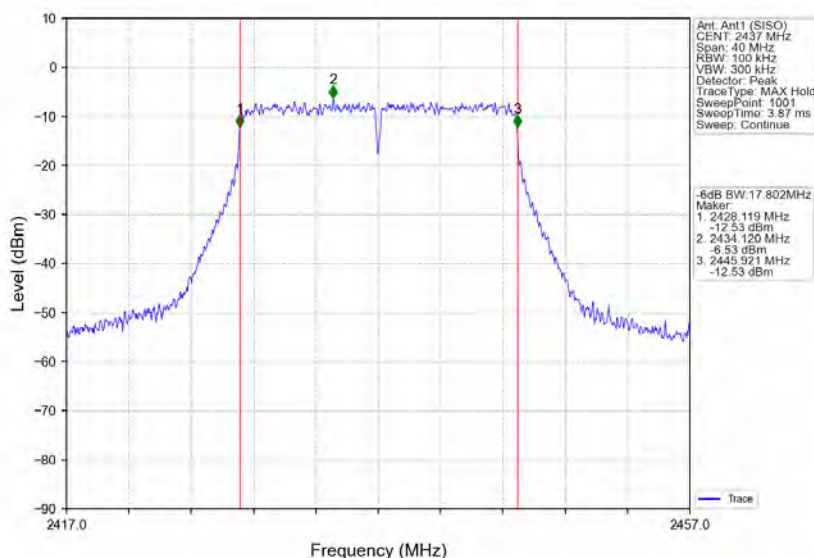
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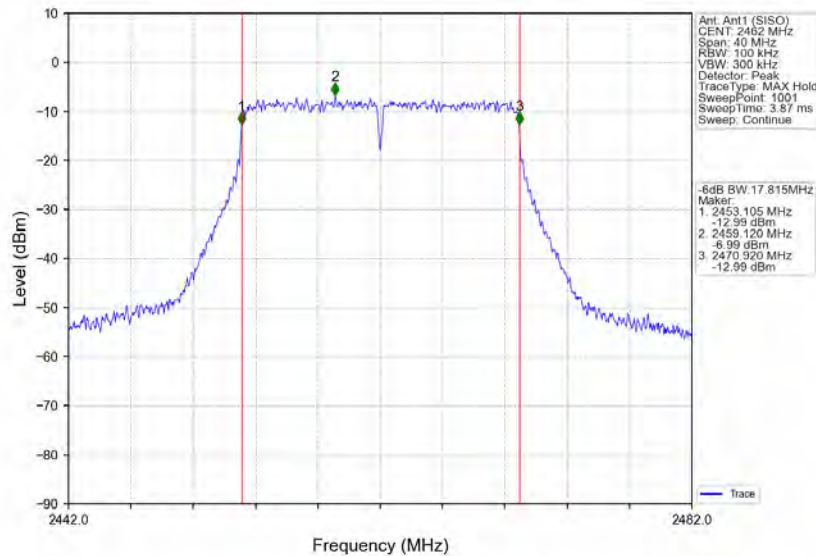
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



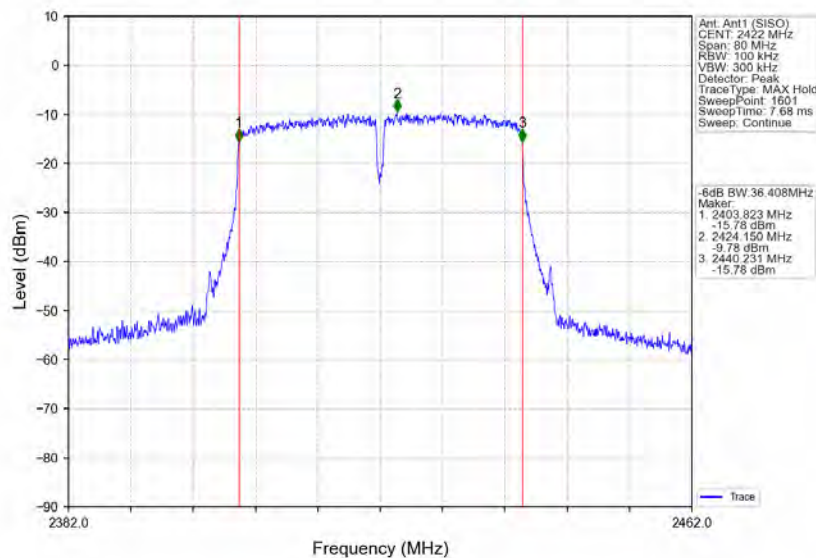
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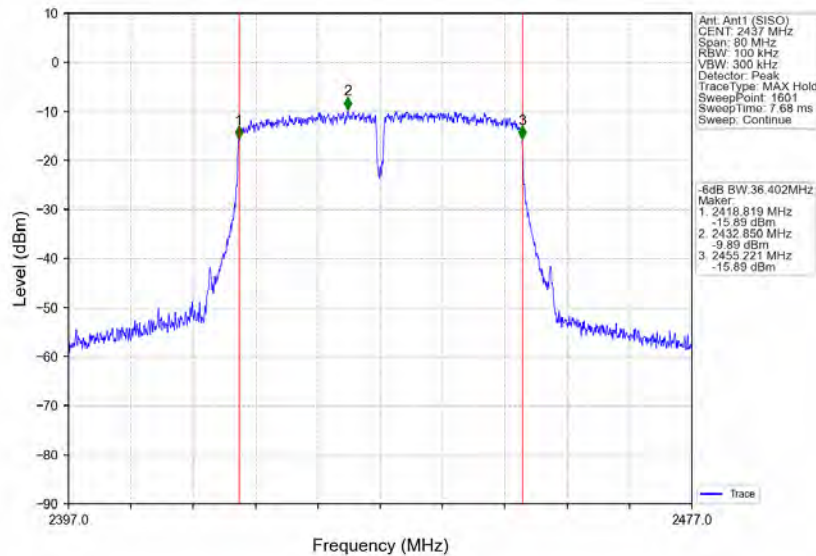
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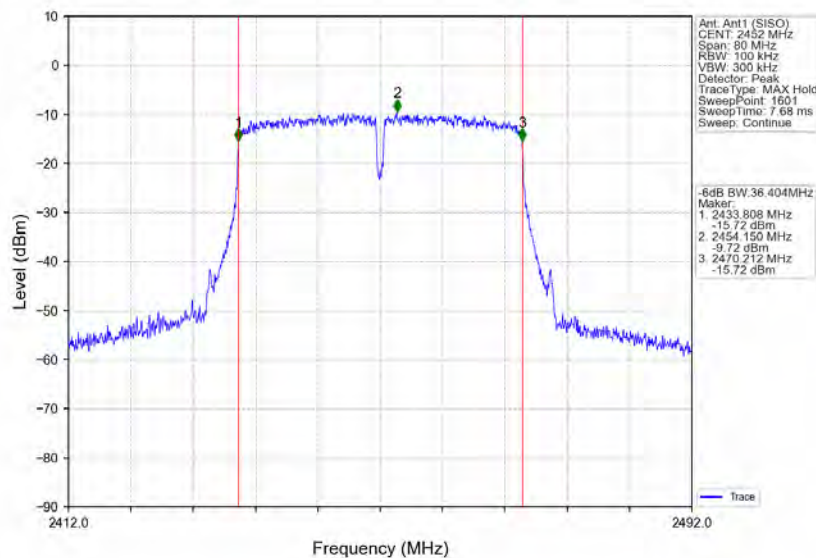
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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3. Maximum Conducted Output Power

3.1 Power

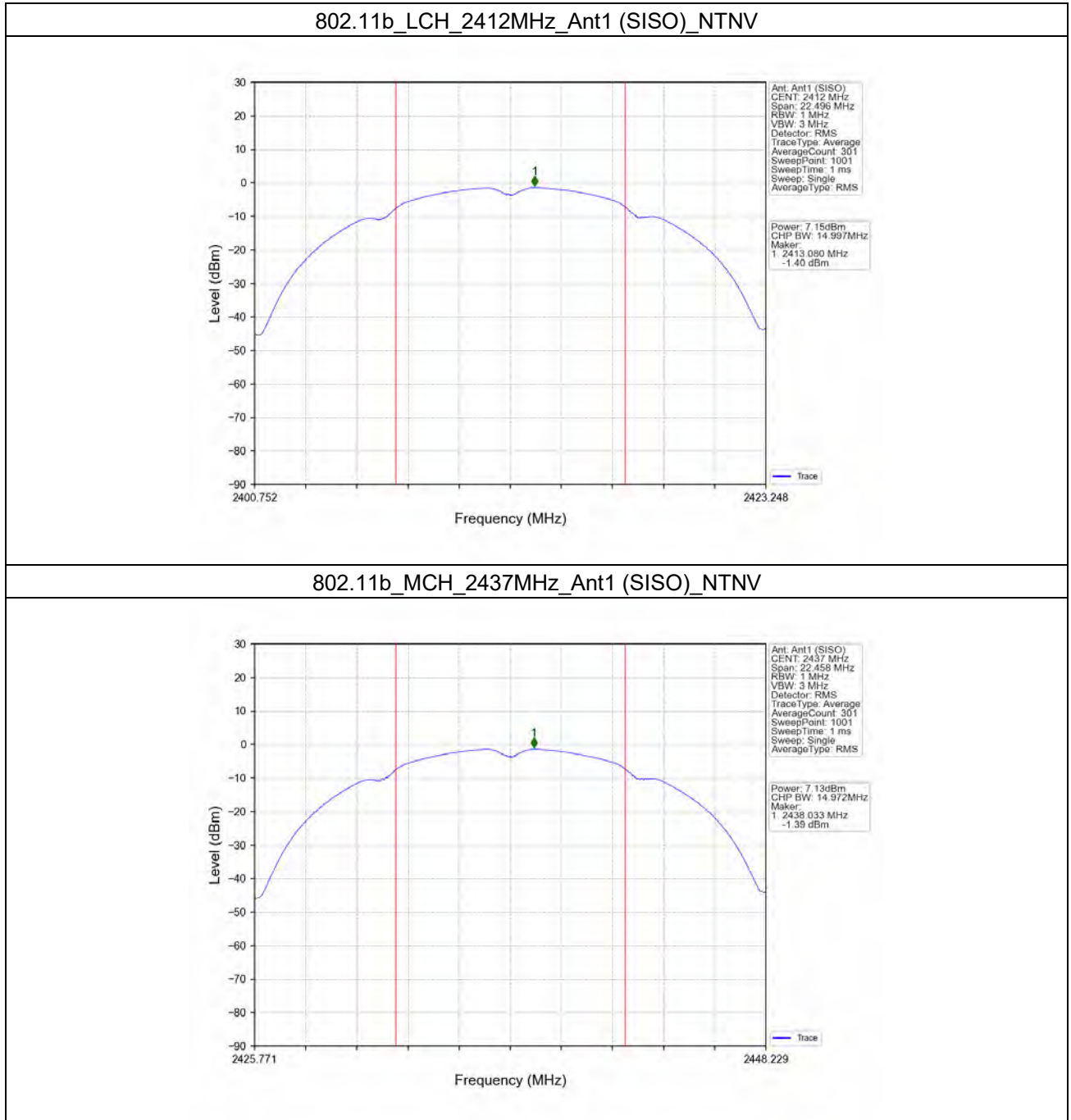
3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	7.15	<=30	Pass
		2437	7.13	<=30	Pass
		2462	7.44	<=30	Pass
802.11g	SISO	2412	7.25	<=30	Pass
		2437	7.46	<=30	Pass
		2462	7.07	<=30	Pass
802.11n (HT20)	SISO	2412	7.37	<=30	Pass
		2437	7.42	<=30	Pass
		2462	7.03	<=30	Pass
802.11n (HT40)	SISO	2422	7.23	<=30	Pass
		2437	7.14	<=30	Pass
		2452	7.29	<=30	Pass

Note1: Antenna Gain: Ant1: -6.71dBi;



3.1.2 Test Graph



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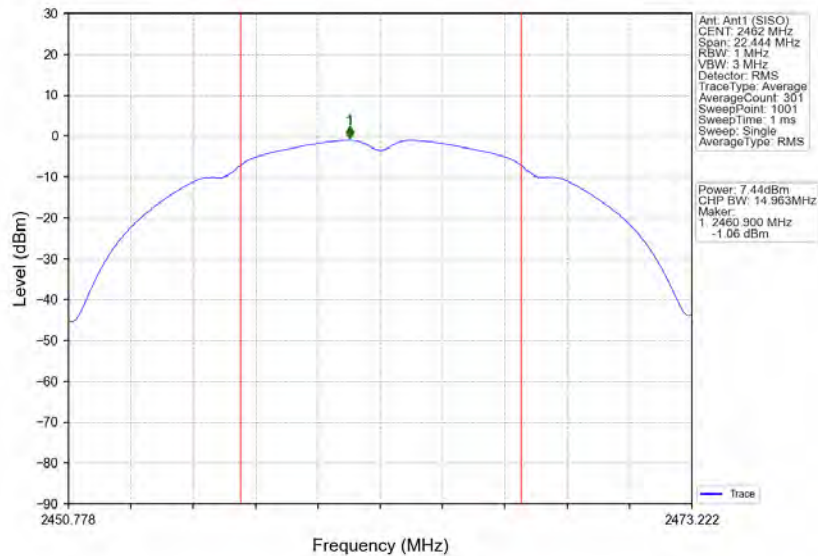
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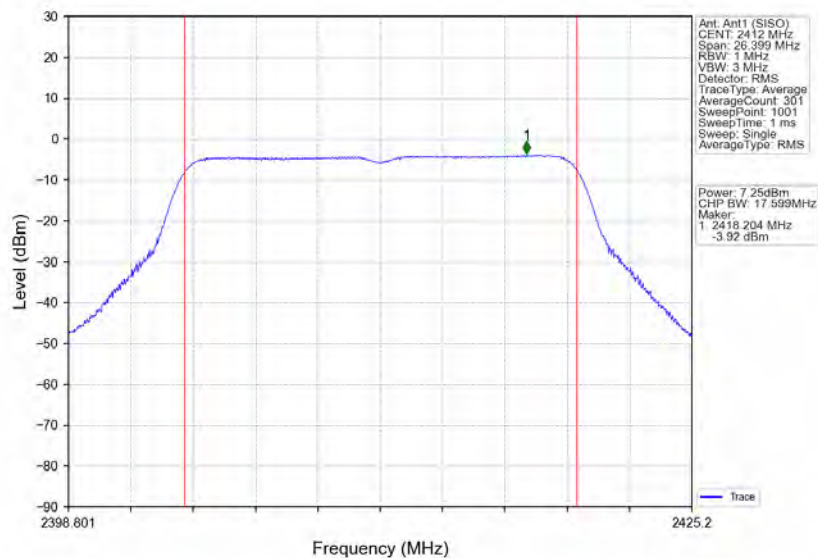
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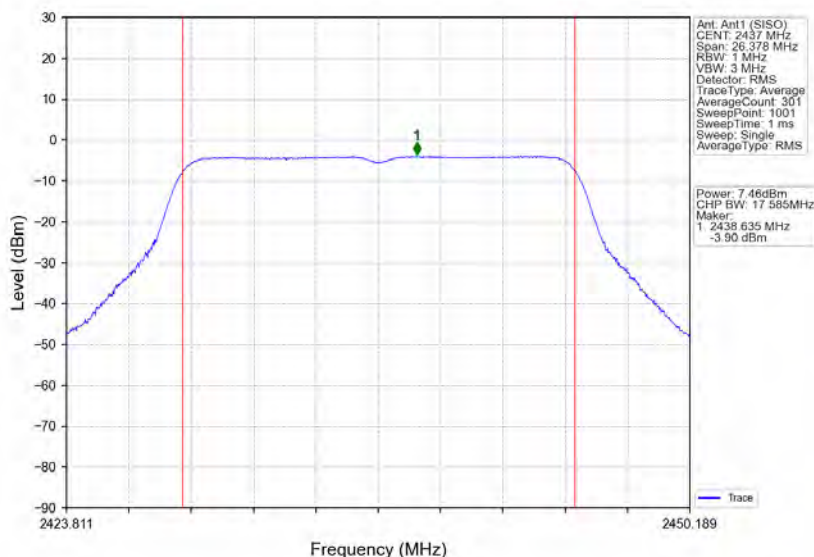
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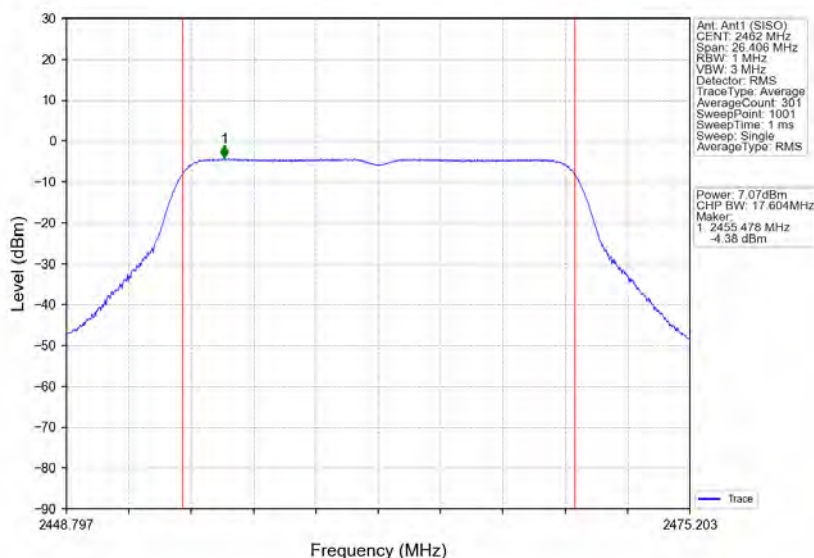
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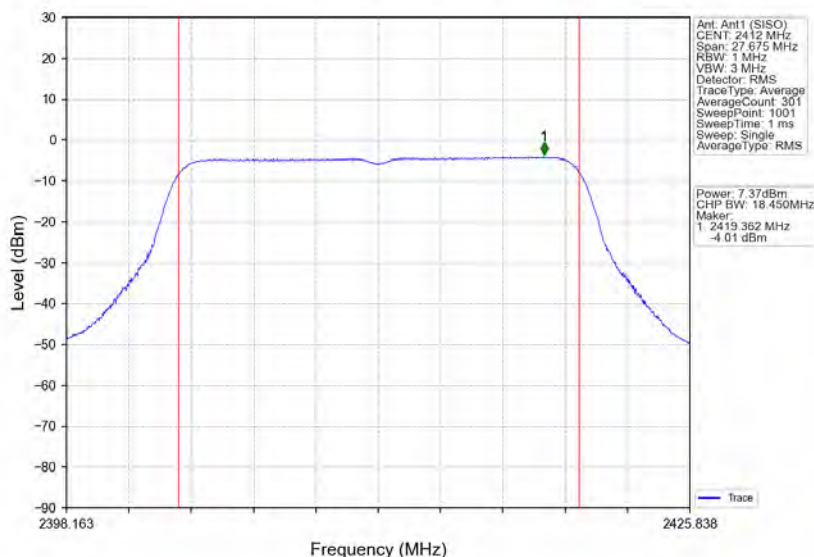
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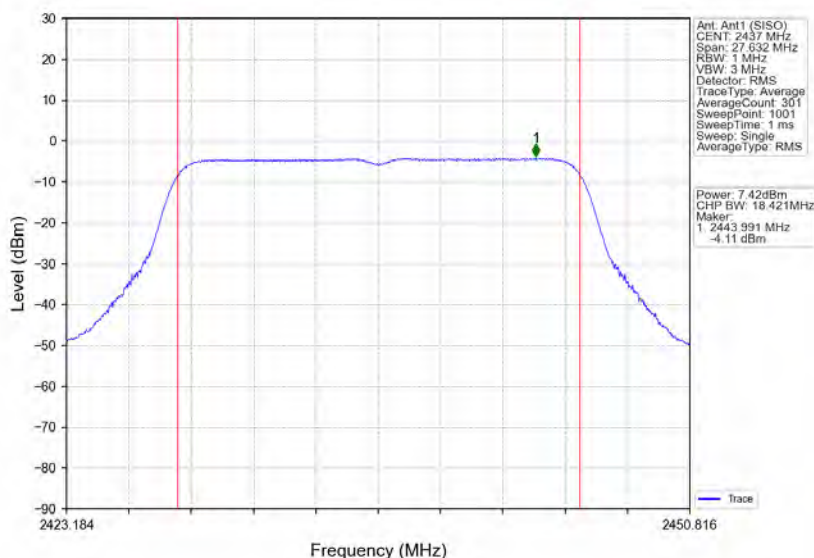
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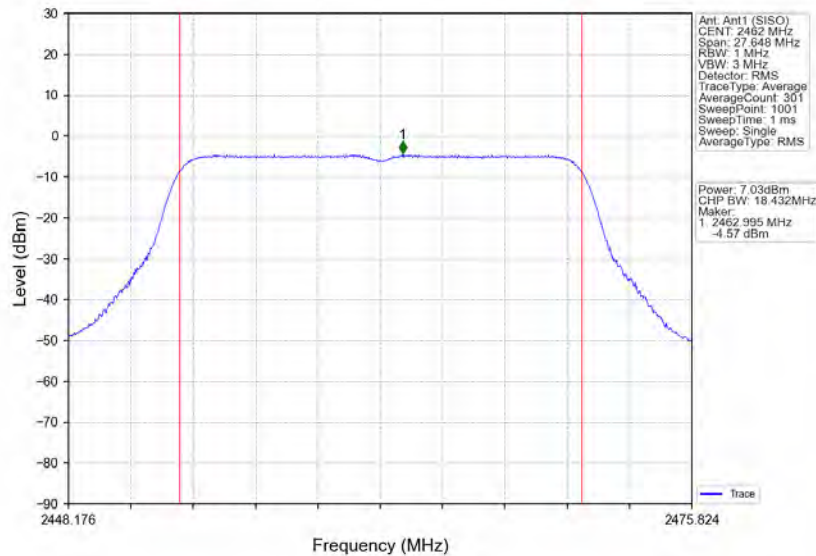
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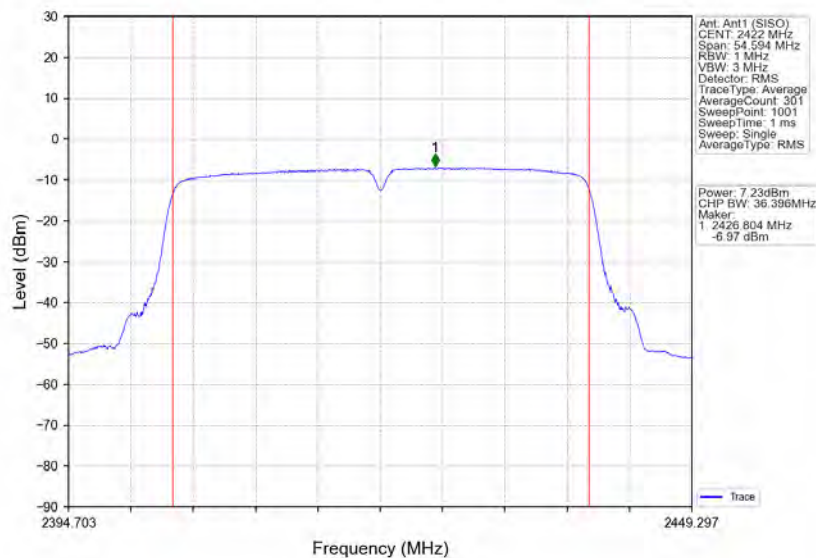
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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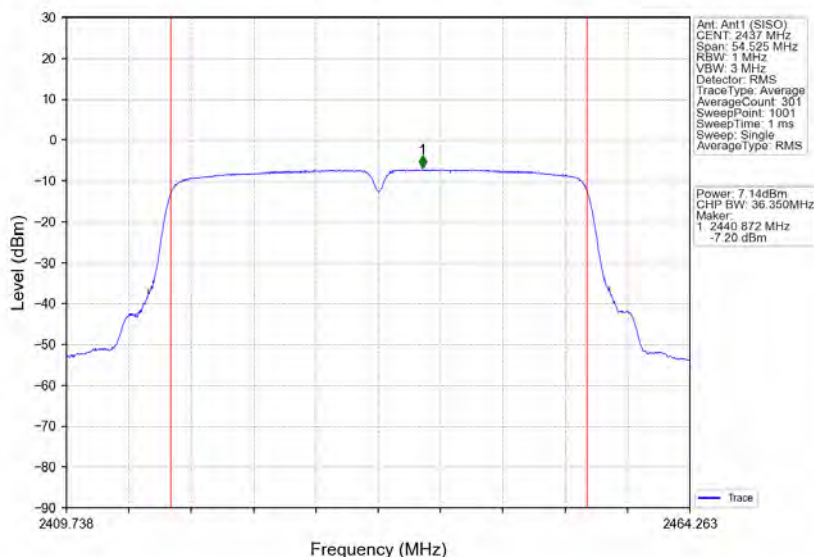
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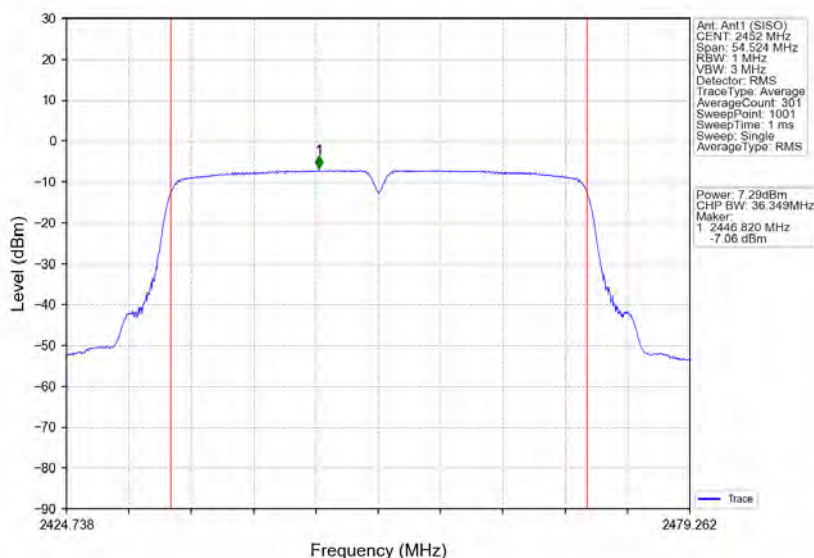
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4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-22.66	<=8	Pass
		2437	-22.59	<=8	Pass
		2462	-22.42	<=8	Pass
802.11g	SISO	2412	-21.40	<=8	Pass
		2437	-21.37	<=8	Pass
		2462	-21.59	<=8	Pass
802.11n (HT20)	SISO	2412	-20.84	<=8	Pass
		2437	-20.85	<=8	Pass
		2462	-21.37	<=8	Pass
802.11n (HT40)	SISO	2422	-22.83	<=8	Pass
		2437	-22.60	<=8	Pass
		2452	-22.08	<=8	Pass

Note1: Antenna Gain: Ant1: -6.71dBi;

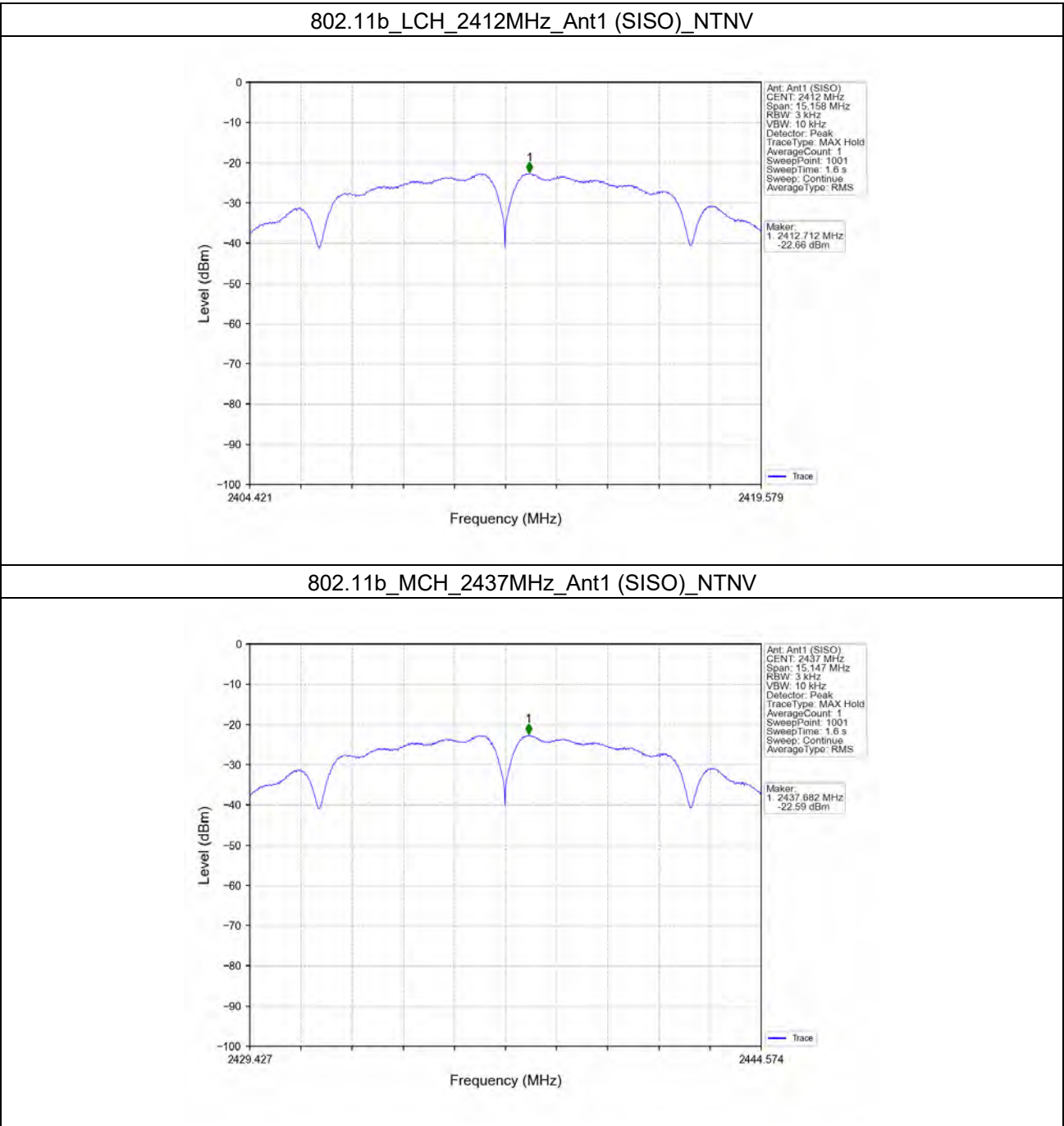


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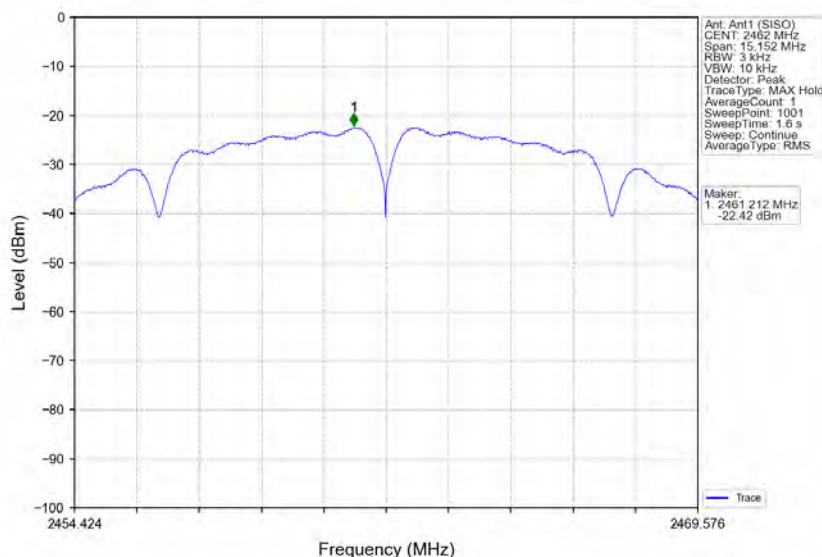
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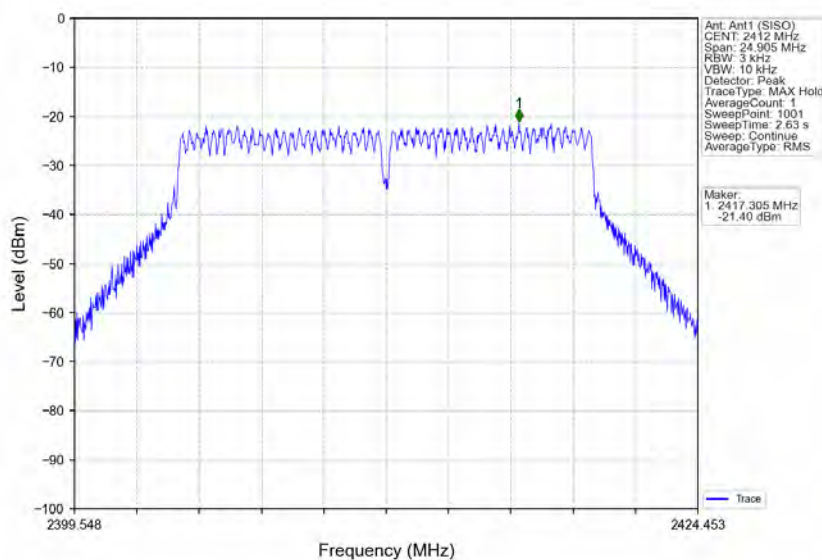
4.1.2 Test Graph



802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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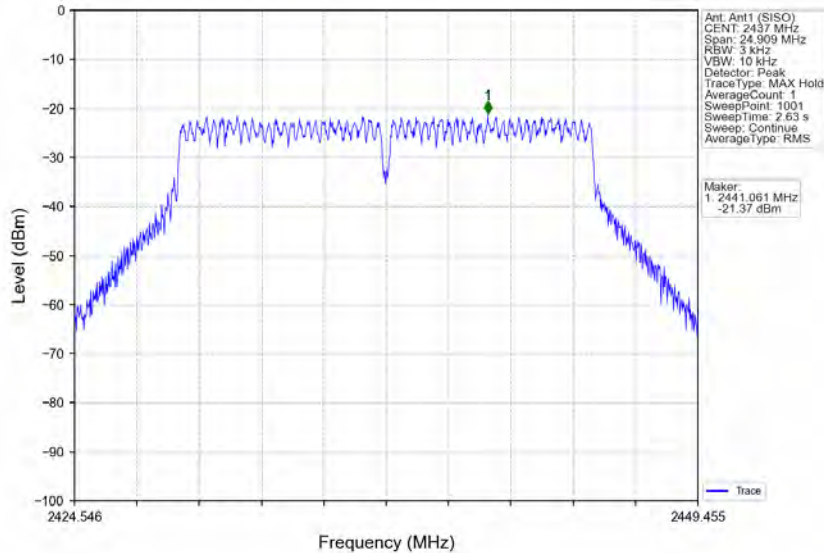
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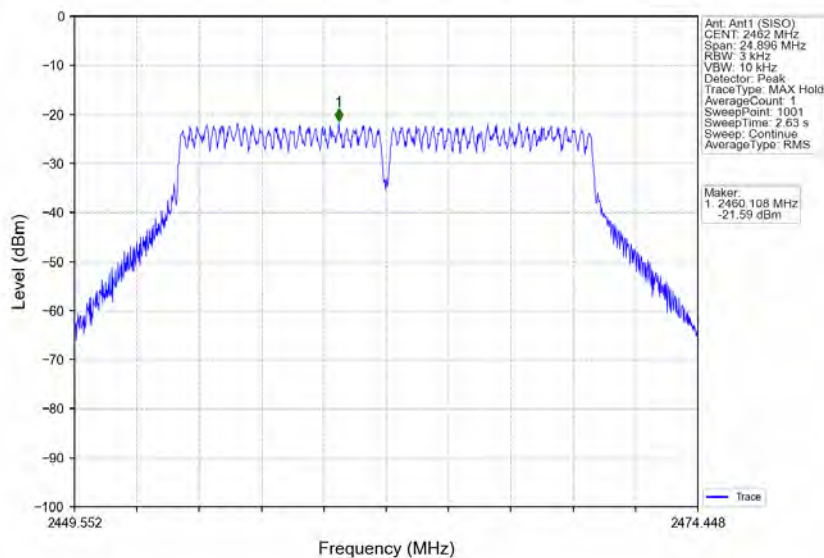
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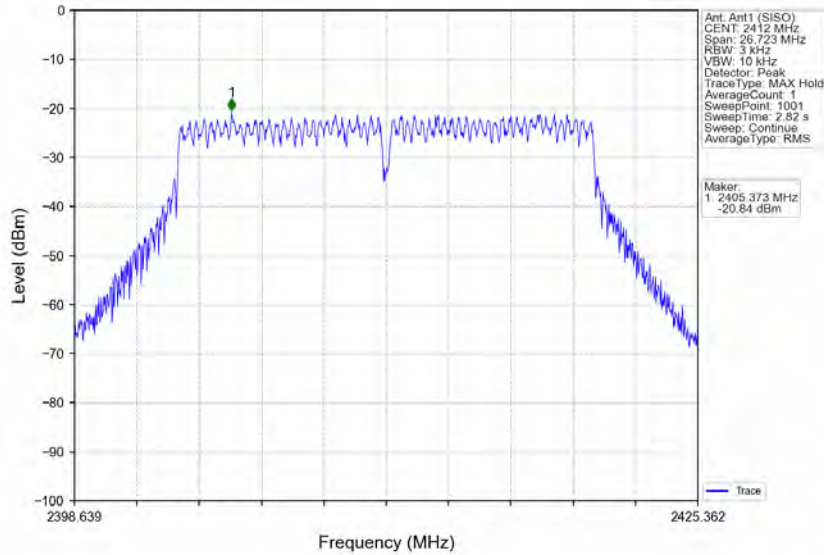
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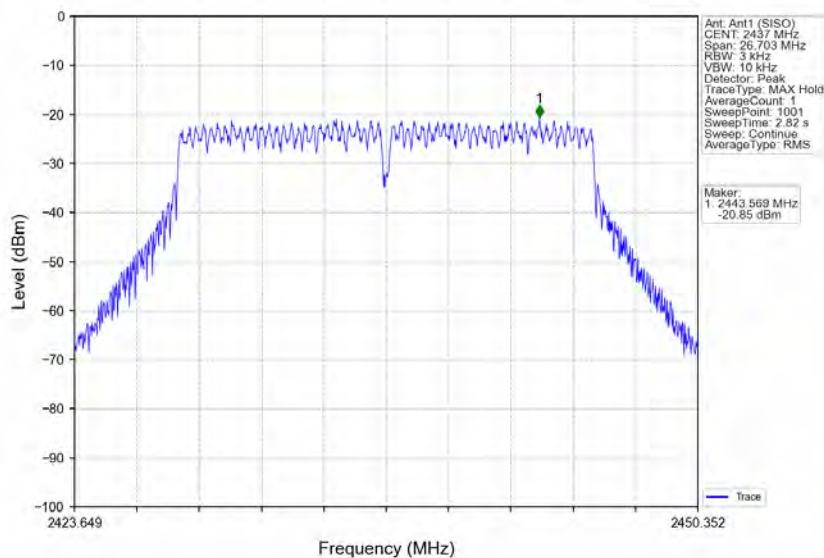
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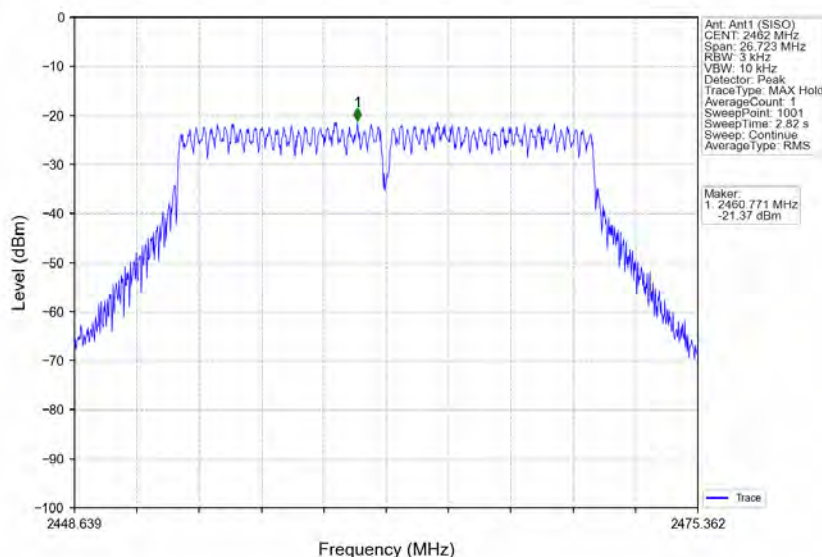
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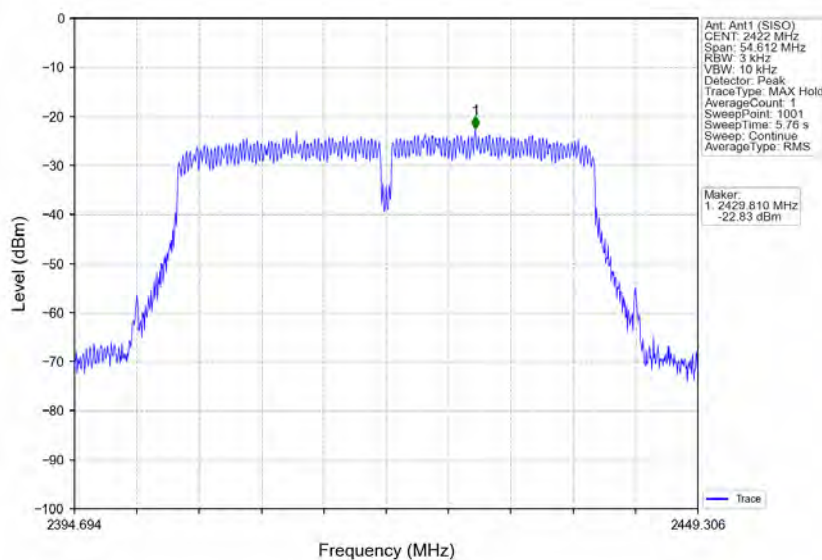
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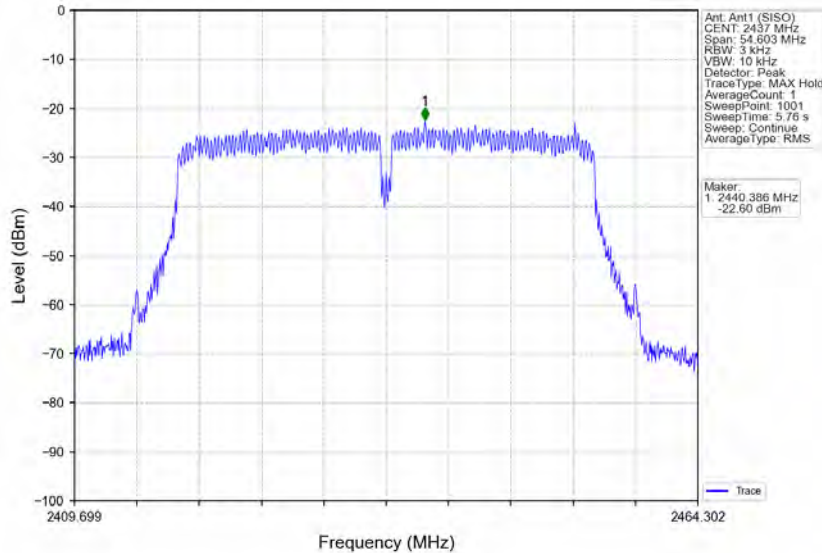
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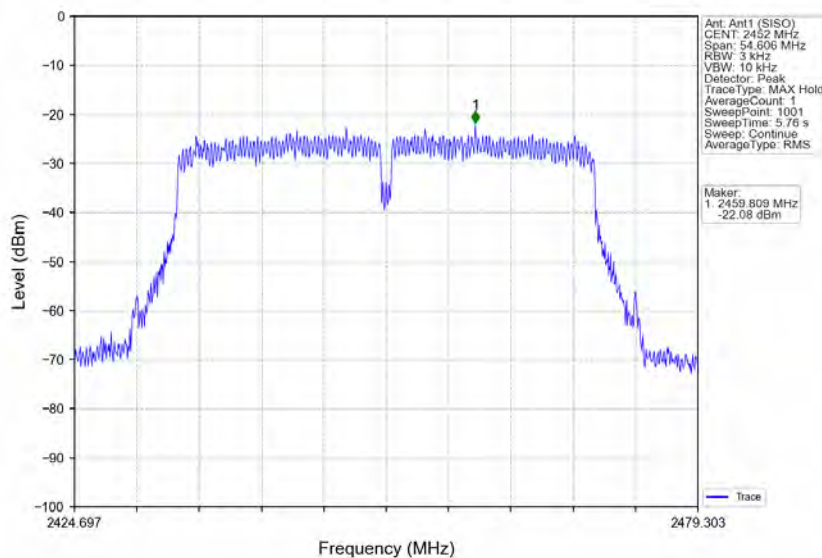
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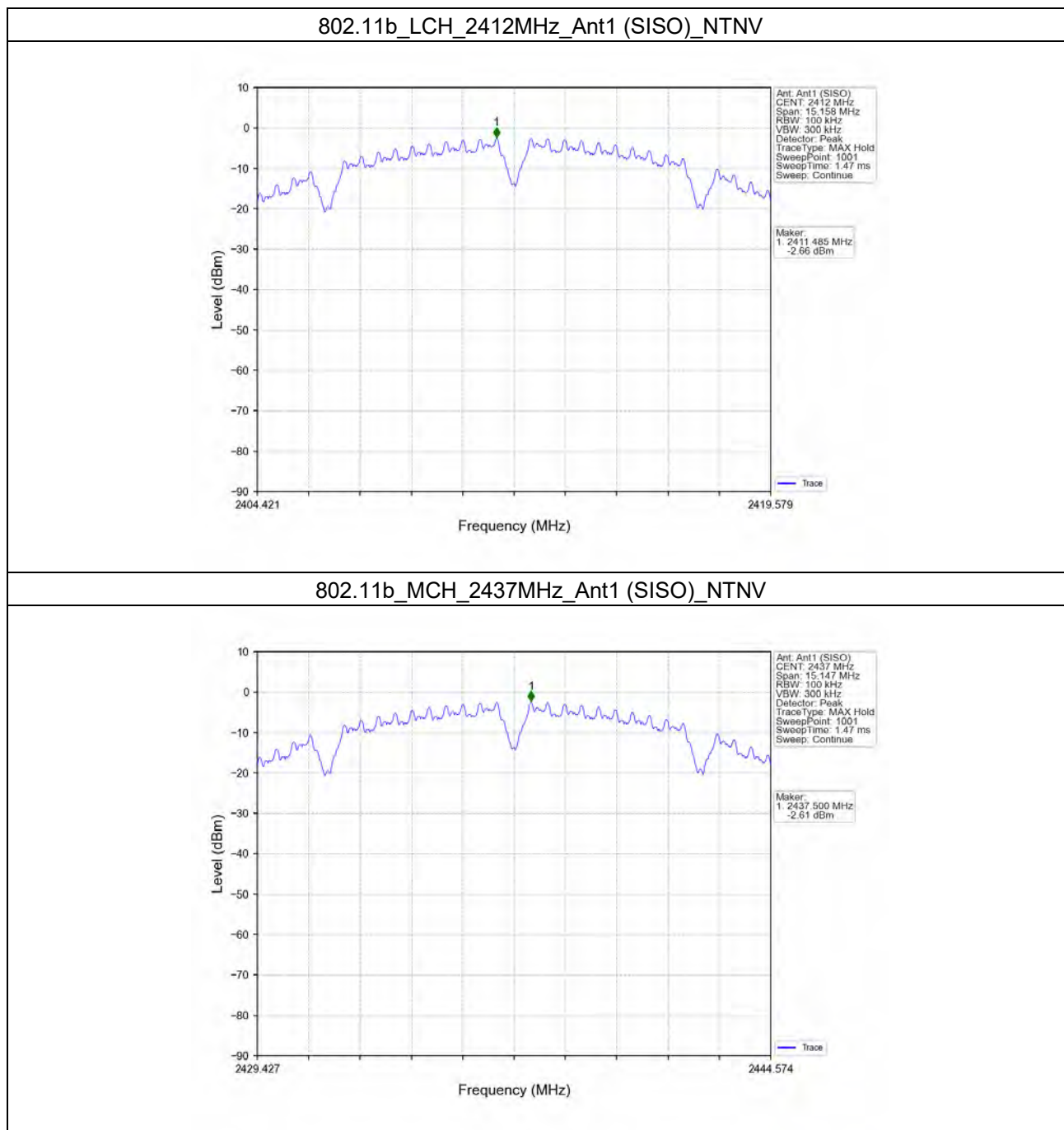
5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	-2.66
		2437	1	-2.61
		2462	1	-2.36
802.11g	SISO	2412	1	-7.01
		2437	1	-6.89
		2462	1	-7.24
802.11n (HT20)	SISO	2412	1	-6.66
		2437	1	-6.55
		2462	1	-7.20
802.11n (HT40)	SISO	2422	1	-9.80
		2437	1	-9.89
		2452	1	-9.67

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

5.1.2 Test Graph



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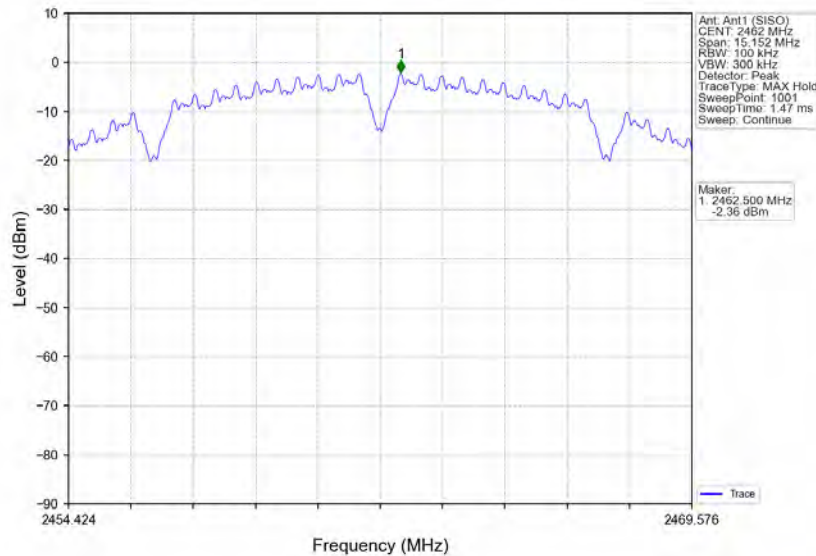
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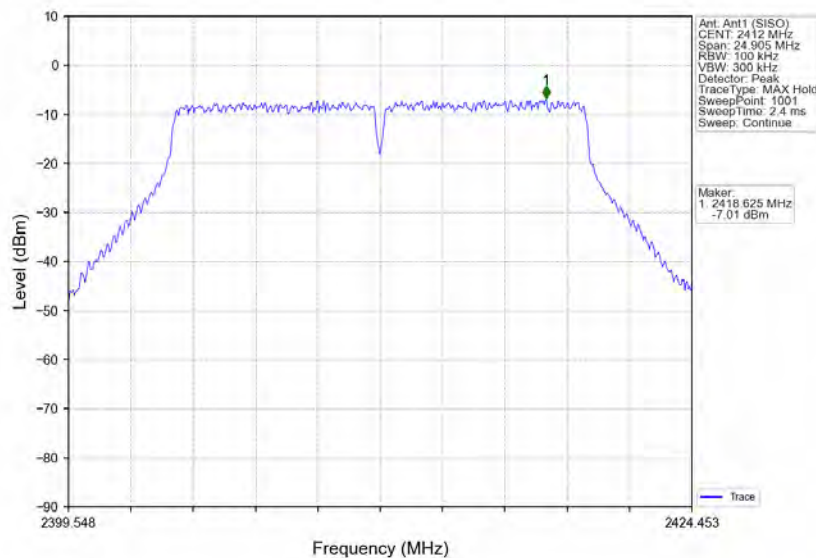
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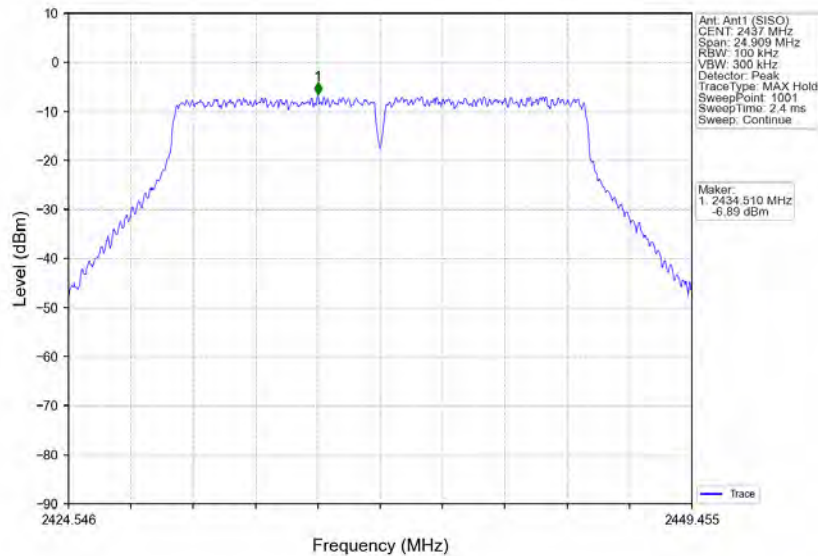
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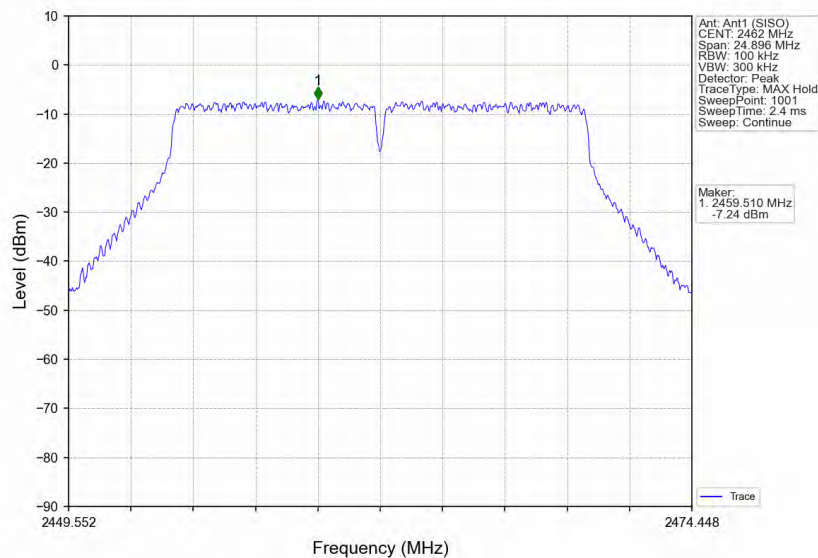
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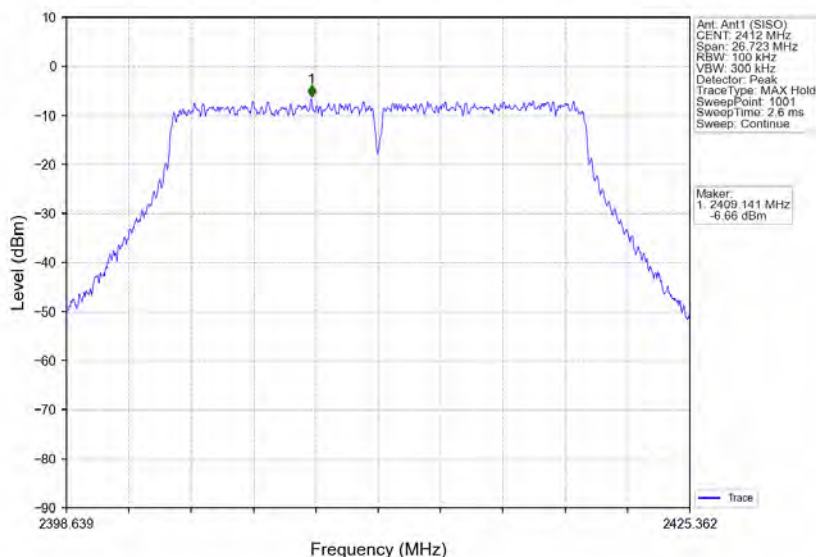
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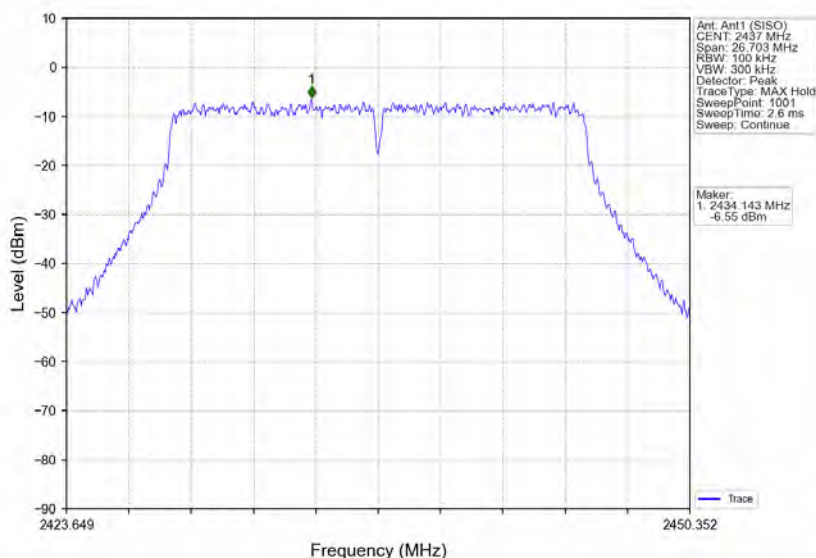
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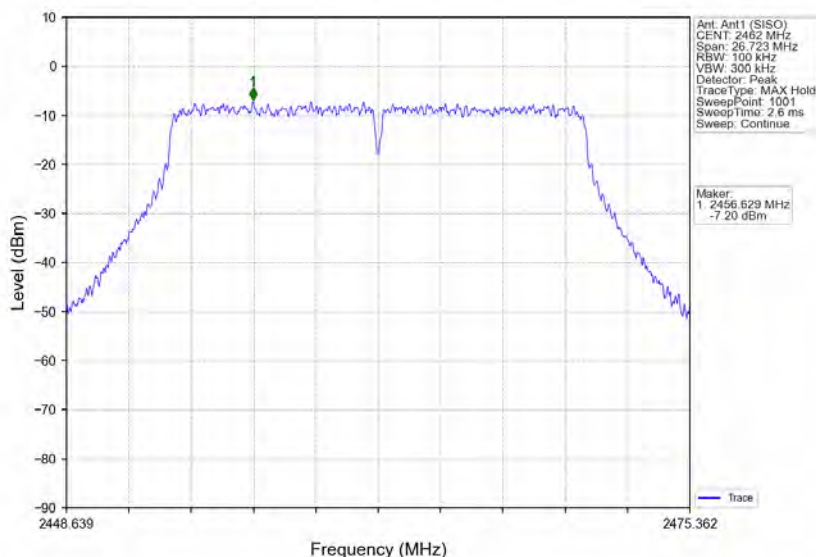
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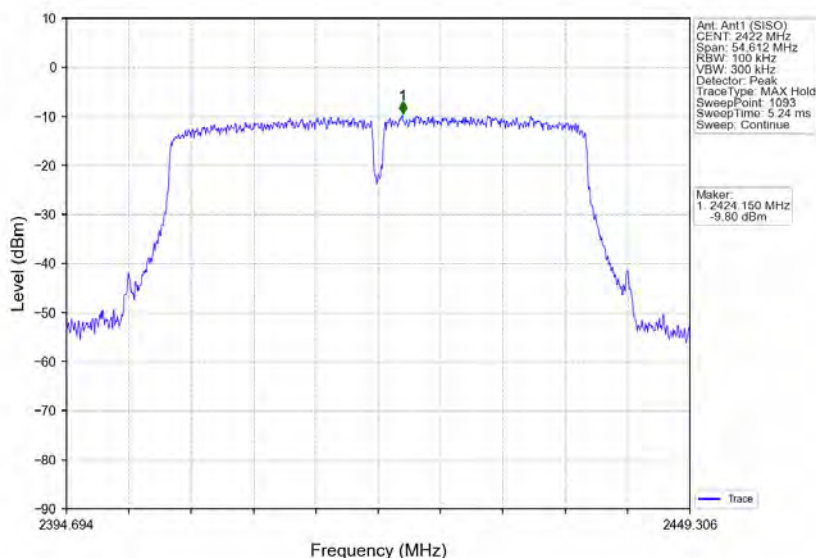
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802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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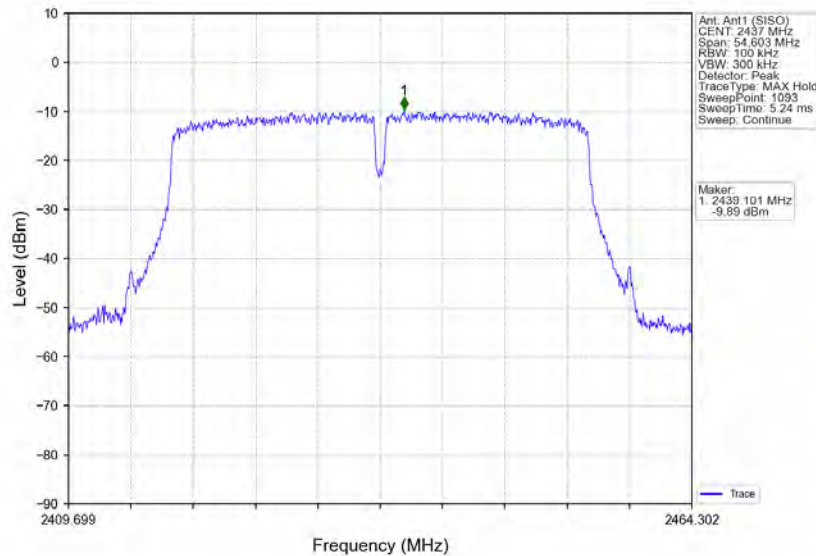
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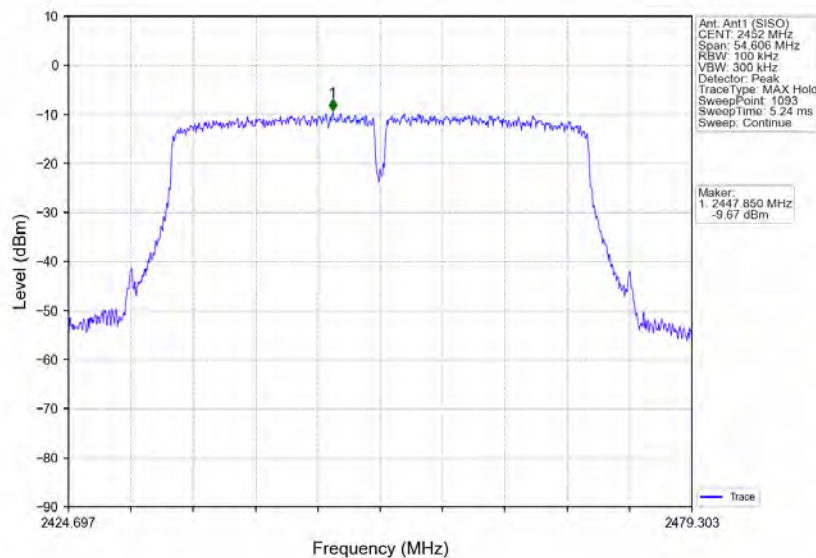
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802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	-2.36	-32.36	Pass
		2437	1	-2.36	-32.36	Pass
		2462	1	-2.36	-32.36	Pass
802.11g	SISO	2412	1	-6.89	-36.89	Pass
		2437	1	-6.89	-36.89	Pass
		2462	1	-6.89	-36.89	Pass
802.11n (HT20)	SISO	2412	1	-6.55	-36.55	Pass
		2437	1	-6.55	-36.55	Pass
		2462	1	-6.55	-36.55	Pass
802.11n (HT40)	SISO	2422	1	-9.67	-39.67	Pass
		2437	1	-9.67	-39.67	Pass
		2452	1	-9.67	-39.67	Pass

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

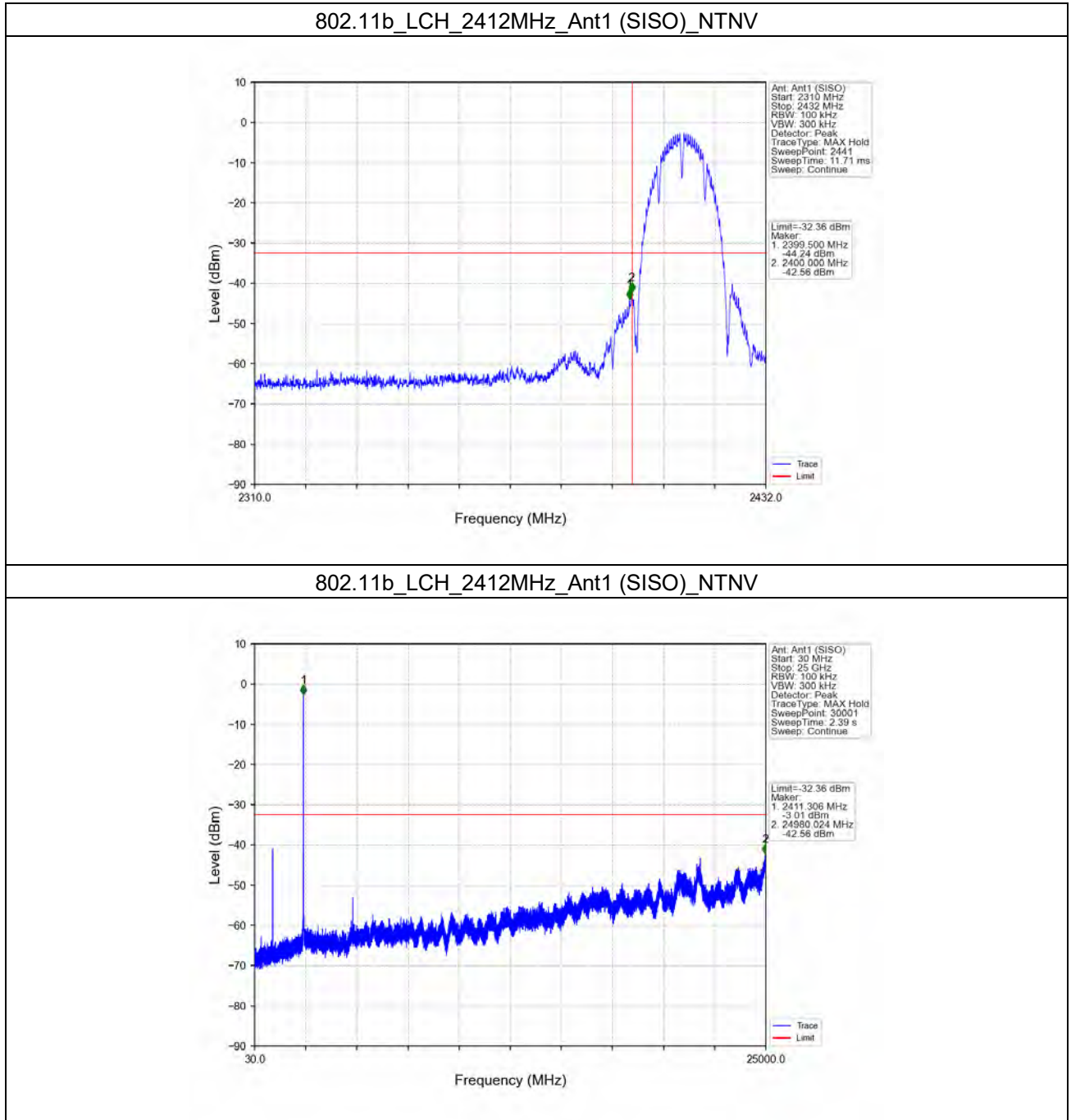


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5.2.2 Test Graph



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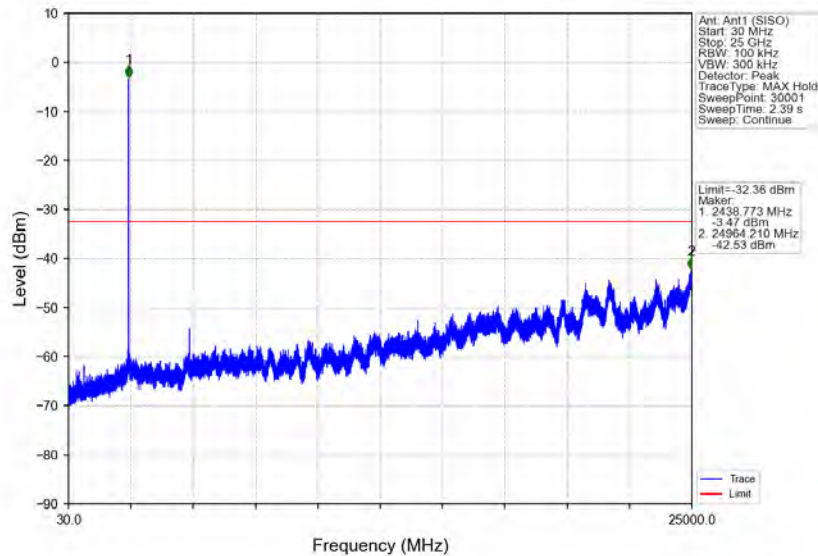
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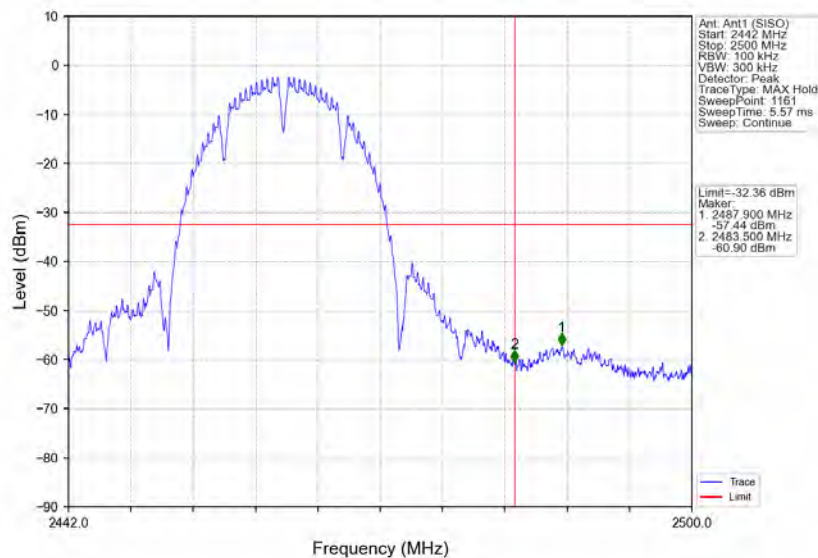
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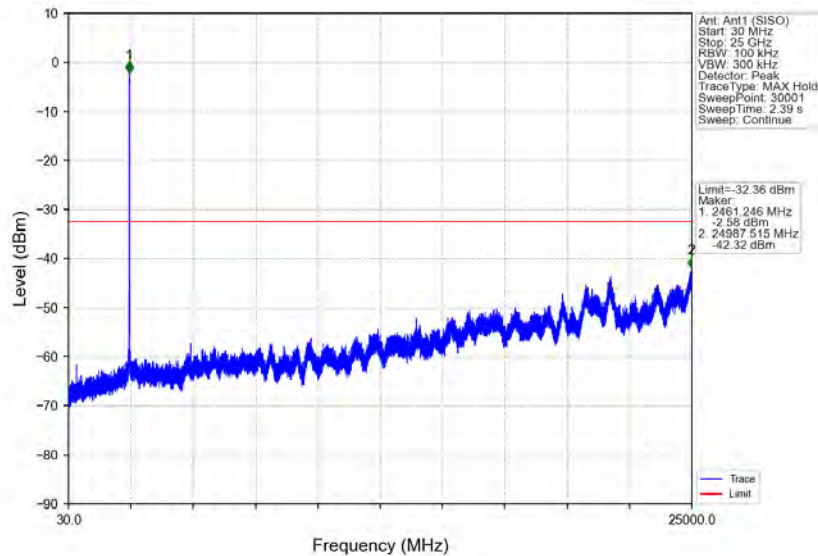
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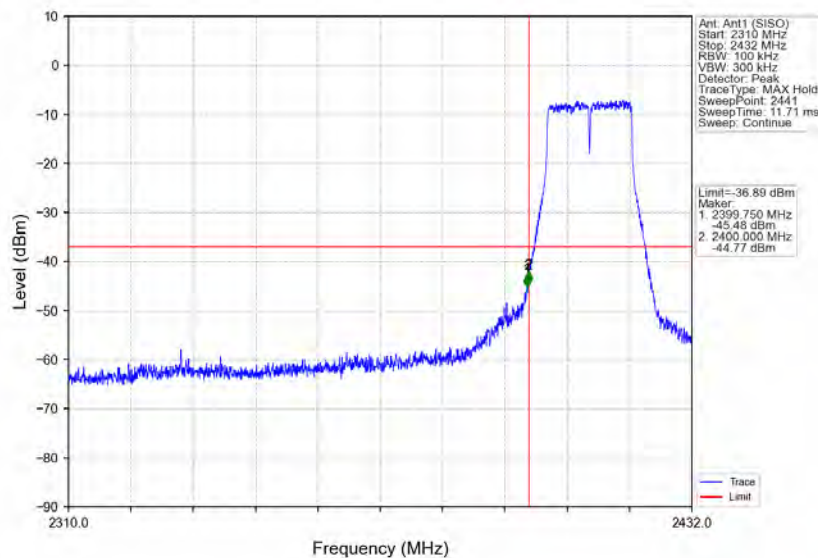
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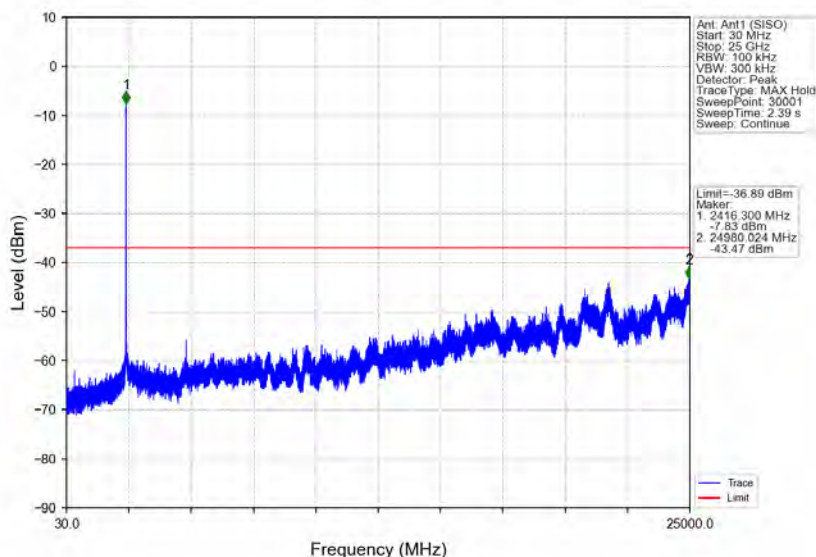
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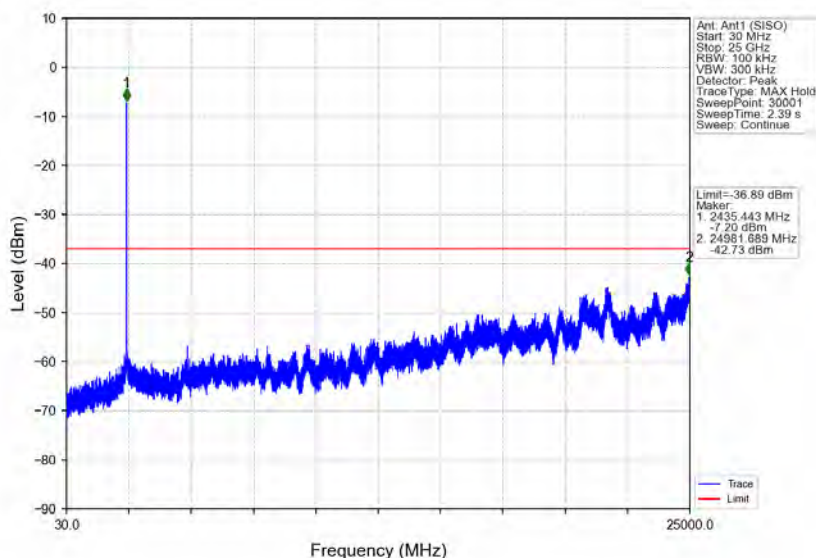
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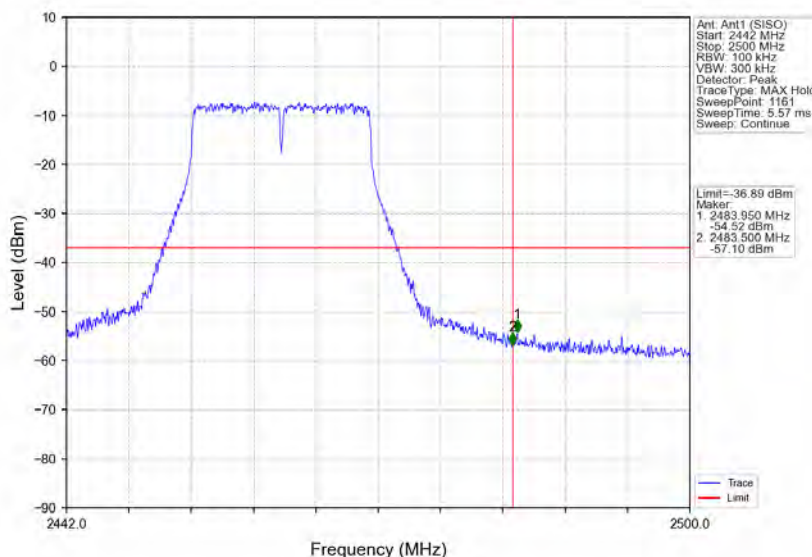
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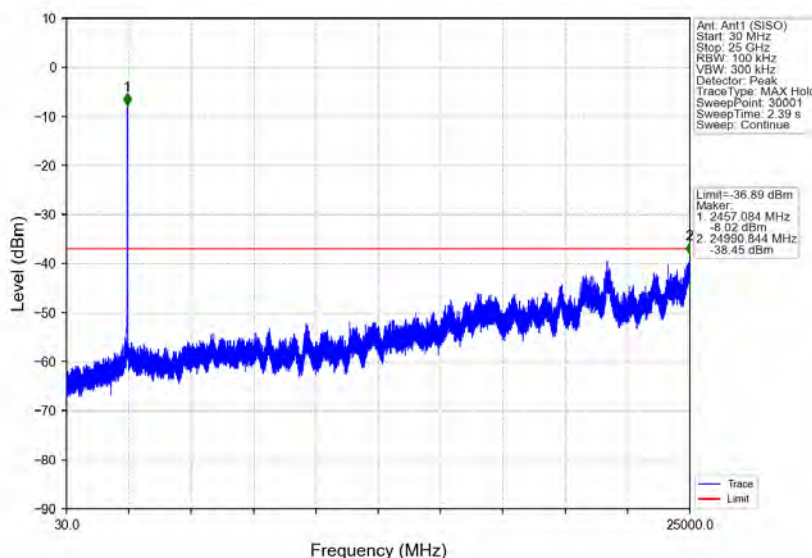
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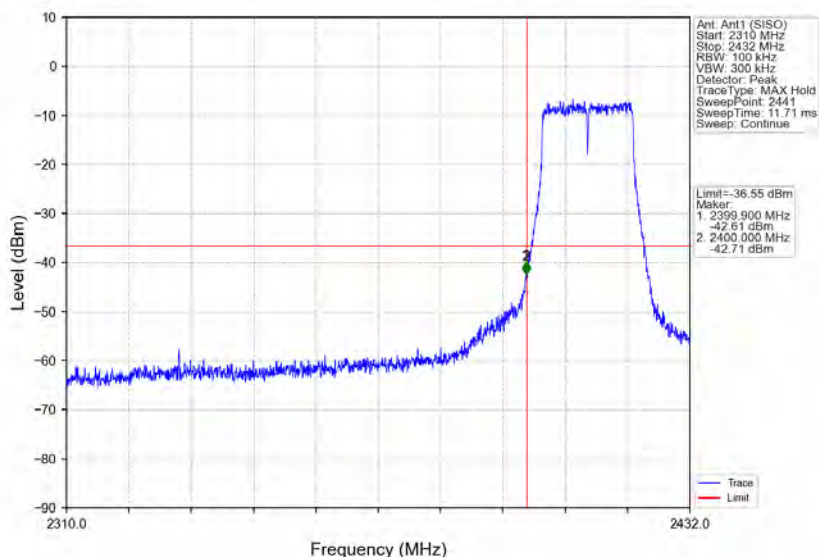
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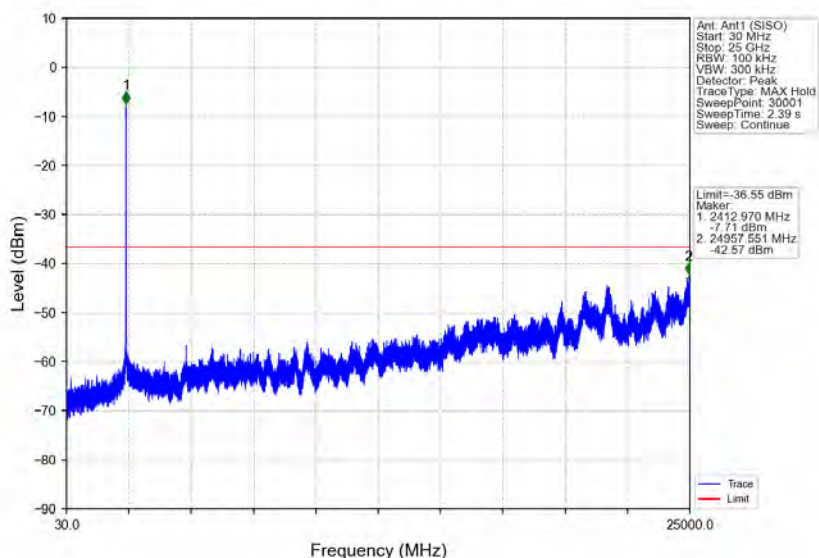
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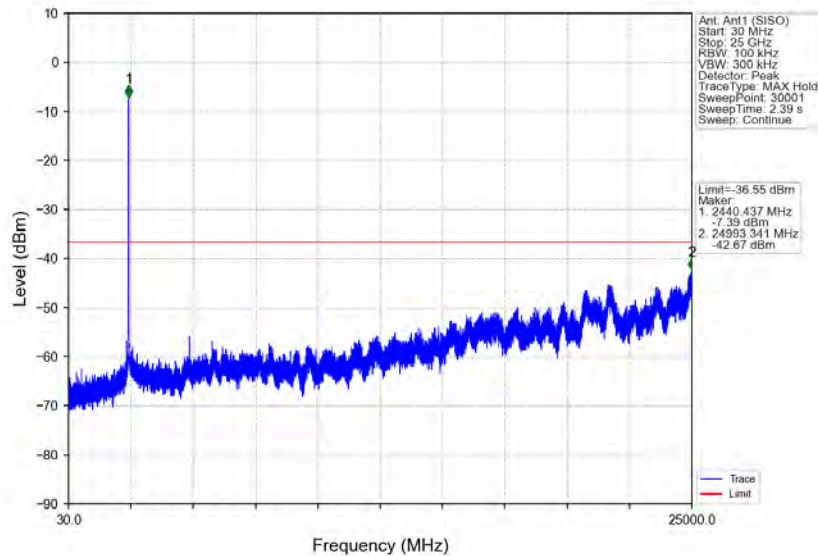
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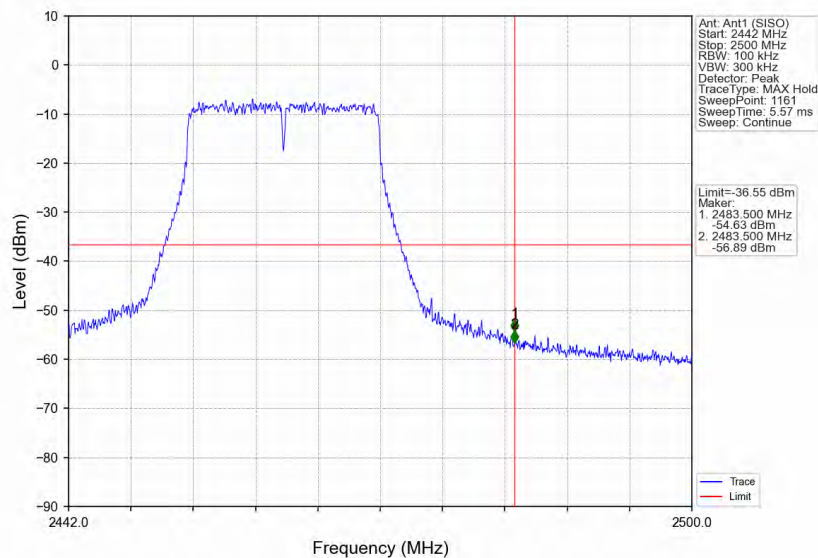
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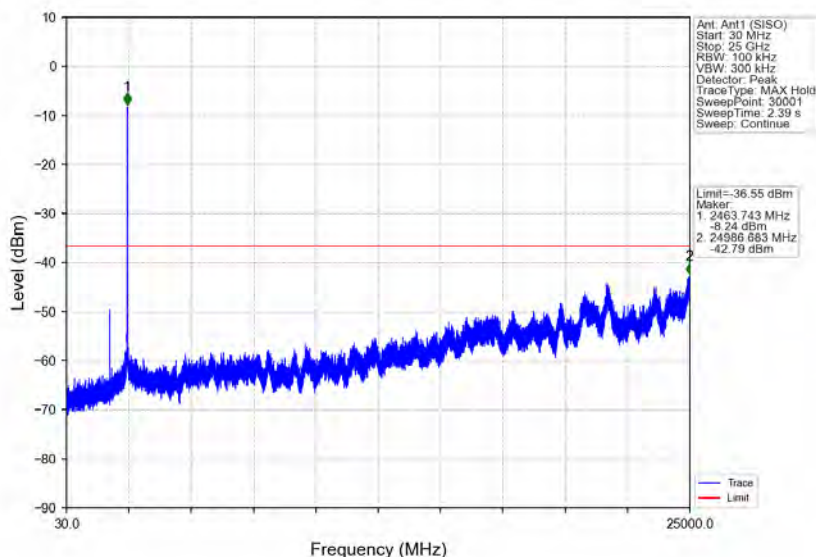
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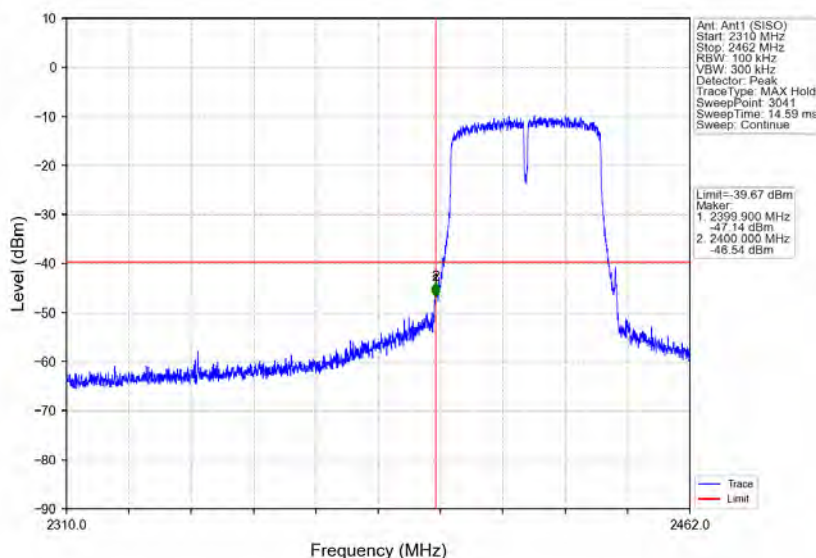
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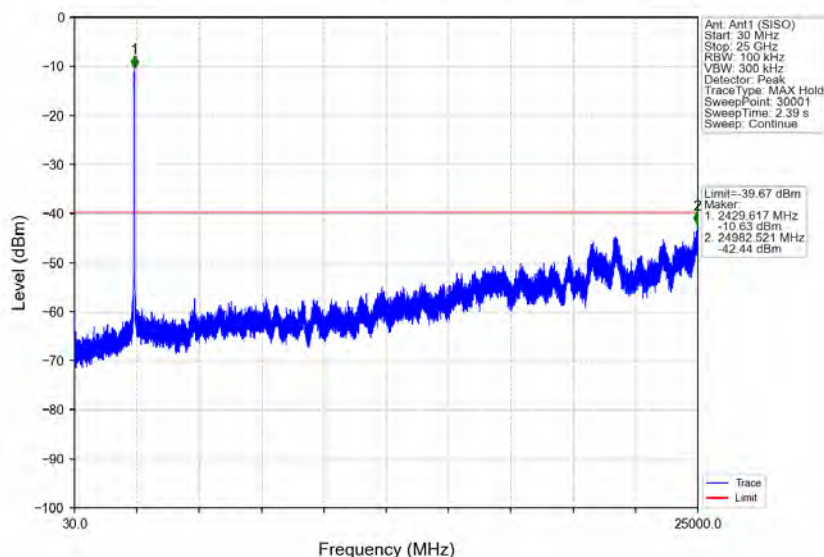
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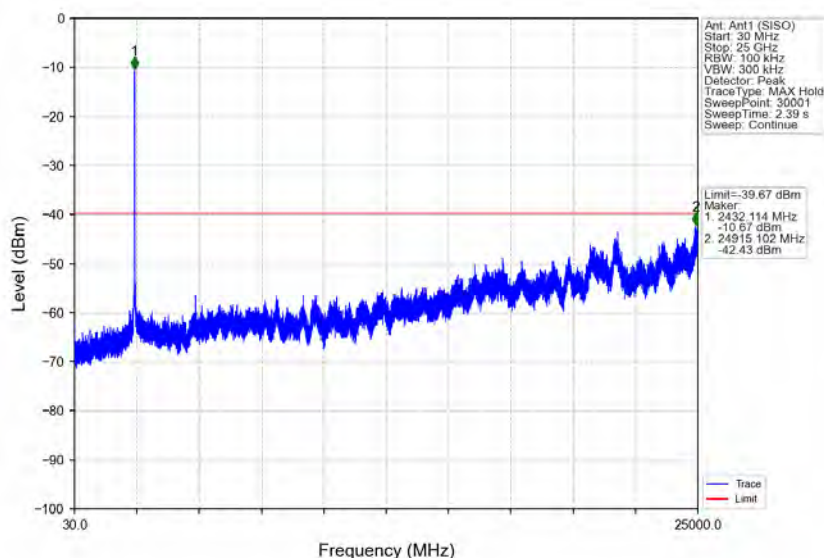
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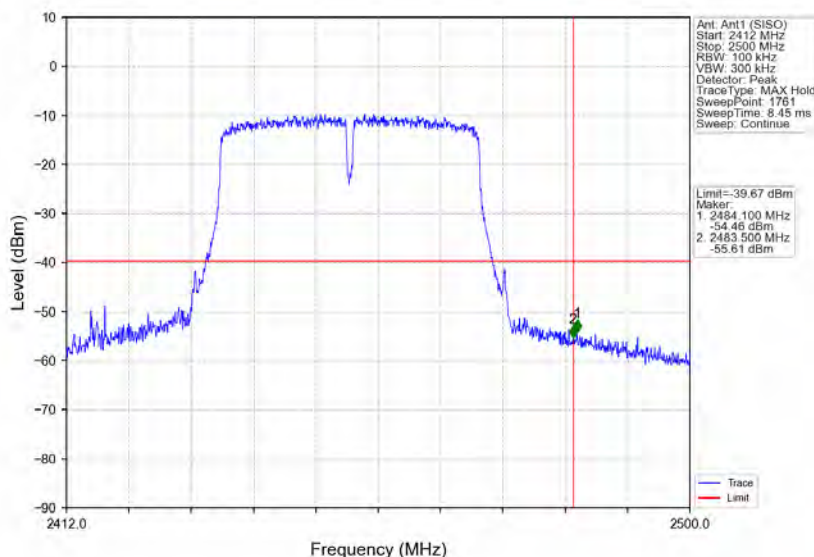
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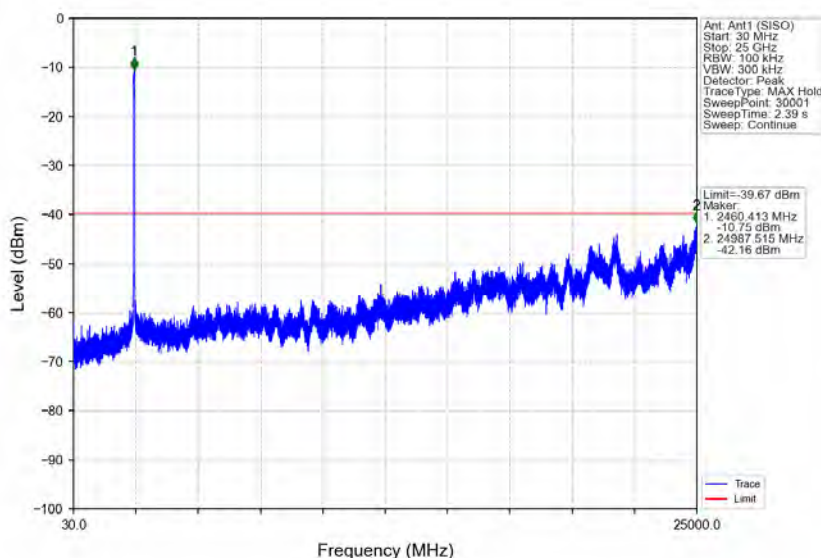
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